

List of tests according to Annexes of REACH Regulation

Physico-chemical tests

State of substance (20 °C and 101.3 kPa)

Melting/freezing point EU A.1/OECD 102

Boiling point EU A.2/OECD 103

Relative density EU A.3/OECD 109

Vapour pressure EU A.4/OECD 104

Surface tension EU A.5/OECD 115

Water solubility EU A.6/OECD 105

Partition coefficient n-octanol/water EU A.8/OECD 107 + OECD 117

Flash point EU A.9

Flammability EU A.10

Explosive properties EU A.14

Self-ignition temperature EU A.16

Oxidizing properties EU A.17

Granulometry ISO 13320-1, ISO 2591-1

Stability in organic solvents

Dissociation constant OECD 112

Viscosity EN ISO 3140

Toxicological tests

Skin irritation or skin corrosion

In vitro skin corrosion: human skin model test EU B.40/OECD 431

In vitro skin irritation EU B.46/OECD 439

Acute toxicity: dermal irritation/corrosion EU B.4/OECD 404

Eye irritation

Bovine corneal opacity and permeability test method for identifying ocular corrosives and

severe irritants EU B.47/OECD 437

In vitro eye irritation EU B.5/OECD 492

Acute toxicity: eye irritation/corrosion EU B.5/OECD 405

Skin sensitisation

In Chemico skin sensitisation: Direct Peptide Reactivity Assay (DPRA) OECD 442 C

In vitro skin sensitisation: ARE-Nrf2 Luciferase Test Method OECD 442D

Local lymph node assay EU B.42 or OECD 429

Guinea pig maximisation test EU B.6/OECD 406

Mutagenicity

Reverse mutation test using bacteria EU B.13/14/OECD 471

In vitro mammalian cell micronucleus test EU B.49/OECD 487

In vitro mammalian chromosome aberration test EU B.10/OECD 473

In vitro mammalian cell gene mutation test EU B.17/OECD 476

In vivo mammalian erythrocyte micronucleus test EU B.12/OECD 474

Acute toxicity

Acute oral toxicity-class method EU B.1tris/OECD 423

Acute oral toxicity-fixed dose procedure EU B.1a/OECD 420

Acute toxicity (dermal) EU B.3/OECD 402

Repeated dose toxicity

Repeated dose (28-days) toxicity (oral) EU B.7/OECD 407

Sub-chronic oral toxicity test (repeated dose 90-days oral toxicity study in rodents)
EU B.26/OECD 408

Repeated dose (28-days) toxicity (dermal) EU B.9/OECD 410

Sub-chronic dermal toxicity test: 90-day repeated dermal dose study using rodent species
EU B.28/OECD 411

Reproductive toxicity

Reproduction/developmental toxicity screening test OECD 421

Reproduction/developmental toxicity screening test (dermal route) OECD 421

Prenatal development toxicity study EU B.31/OECD 414

One-generation reproduction toxicity test EU B.34/OECD 415

Extended One-Generation Reproductive Toxicity Study OECD 443

Two-generation reproduction toxicity test EU B.35/OECD 416

Combined repeated dose toxicity study with the reproduction/developmental toxicity
screening test (oral route) OECD 422

Combined repeated dose toxicity study with the reproduction/developmental toxicity
screening test (dermal route) OECD 422

Chronic/Carcinogenicity study

Chronic toxicity test EU B.30/OECD 452

Carcinogenicity test EU B.32/OECD 451

Combined chronic toxicity/carcinogenicity studies EU B.33/OECD 453

Ecotoxicological tests

Aquatic toxicity

Acute toxicity for fish EU C.1/OECD 203

Daphnia magna, Acute immobilisation test EU C.2/OECD 202

Algal inhibition test EU C.3/OECD 201

Activated sludge respiration inhibition test EU C.11/OECD 209

Daphnia magna reproduction test EU C.20/OECD 211

Fish, Short-term Toxicity Test on Embryo and Sac-Fry Stages EU C.15/OECD 212

Degradation

Hydrolysis as a function of pH EU C.7

Ready biodegradability - DOC die-away test EU C.4-A/OECD 301A

Ready biodegradability - Closed bottle test EU C.4-E/OECD 301D

Biodegradation - Zahn-Wellens test EU C.9/OECD 302B

Adsorption/desorption screening

Estimation of the adsorption coefficient (K_{oc}) on soil and on sewage sludge using HPLC
EU C.19/OECD 121