

Tris(1,3-dichloroisopropyl)phosphate

Other names:

1,3-Dichloro-2-propanol phosphate (3:1)
2-Propanol, 1,3-dichloro-, phosphate (3:1)
CRP
CRP (fireproofing agent)
Emulsion 212
Fosforan troj-(1,3-dwuchloroizopropyłowy)
Fyrol FR 2
PF 38
PF 38/3
Phosphoric acid tris(1,3-dichloro-2-propyl)ester
TDCPP
Tcpp
Tri(«beta», «beta»'-dichloroisopropyl)phosphate
Tris(1,3-dichloro-2-propyl) phosphate
Tris(1,3-dichloro-2-propyl) phosphate
Tris(1-chloromethyl-2-chloroethyl)phosphate
tris(1,3-dichloro-2-propanol) phosphate
tris(1,3-dichloropropan-2-yl) phosphate
tris[2-chloro-1-(chloromethyl)ethyl] phosphate

Inchi: InChI=1S/C9H15Cl6O4P/c10-1-7(2-11)17-20(16,18-8(3-12)4-13)19-9(5-14)6-15/h7-9H,1
InchiKey: ASLWPAWFJZFCKF-UHFFFAOYSA-N
Formula: C9H15Cl6O4P
SMILES: O=P(OC(CCl)CCl)(OC(CCl)CCl)OC(CCl)CCl
Mol. weight [g/mol]: 430.90
CAS: 13674-87-8

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|--------|----------------|
| log10ws | -5.37 | | Crippen Method |
| logp | 4.683 | | Crippen Method |
| mcvol | 255.050 | ml/mol | McGowan Method |
| rinpol | 2254.00 | | NIST Webbook |
| rinpol | 2248.00 | | NIST Webbook |
| rinpol | 2254.00 | | NIST Webbook |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|----------|------|-----------------|---|
| pvap | 4.10e-07 | kPa | 298.00 | Determination of Vapor Pressures for Organophosphate Esters |

Sources

| | |
|---|---|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| Crippen Method: | https://www.cheméo.com/doc/models/crippen_log10ws |
| Determination of Vapor Pressures for Organophosphate Esters: | https://www.doi.org/10.1021/je401026a |
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C13674878&Units=SI |

Legend

| | |
|-----------------|-------------------------------------|
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mcvol: | McGowan's characteristic volume |
| pvap: | Vapor pressure |
| rinpol: | Non-polar retention indices |

Latest version available from:

<https://www.cheméo.com/cid/15-287-7/Tris-1-3-dichloroisopropyl-phosphate.pdf>

Generated by Cheméo on 2024-04-20 02:35:53.108724108 +0000 UTC m=+15869802.029301423.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.