

Diethylmalonic acid, 2,4-dichloronaphth-1-yl hexyl ester

| | |
|-----------------------------|---|
| Inchi: | InChI=1S/C23H28Cl2O4/c1-4-7-8-11-14-28-21(26)23(5-2,6-3)22(27)29-20-17-13-10-9-12 |
| InchiKey: | KQBAYSSCGMGPQJ-UHFFFAOYSA-N |
| Formula: | C23H28Cl2O4 |
| SMILES: | CCCCCOC(=O)C(CC)(CC)C(=O)Oc1c(Cl)cc(Cl)c2cccc12 |
| Mol. weight [g/mol]: | 439.37 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -155.91 | kJ/mol | Joback Method |
| hf | -654.69 | kJ/mol | Joback Method |
| hfus | 51.77 | kJ/mol | Joback Method |
| hvap | 98.48 | kJ/mol | Joback Method |
| log10ws | -8.19 | | Crippen Method |
| logp | 6.982 | | Crippen Method |
| mcvol | 331.070 | ml/mol | McGowan Method |
| pc | 1224.27 | kPa | Joback Method |
| rinpol | 2993.00 | | NIST Webbook |
| rinpol | 2993.00 | | NIST Webbook |
| tb | 1010.45 | K | Joback Method |
| tc | 1242.21 | K | Joback Method |
| tf | 652.23 | K | Joback Method |
| vc | 1.272 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 1024.26 | J/molxK | 1010.45 | Joback Method |
| cpg | 1080.31 | J/molxK | 1203.58 | Joback Method |
| cpg | 1070.77 | J/molxK | 1164.96 | Joback Method |
| cpg | 1060.48 | J/molxK | 1126.33 | Joback Method |
| cpg | 1049.36 | J/molxK | 1087.70 | Joback Method |
| cpg | 1037.32 | J/molxK | 1049.08 | Joback Method |
| cpg | 1089.19 | J/molxK | 1242.21 | Joback Method |
| dvisc | 0.0000425 | Paxs | 1010.45 | Joback Method |

| | | | | |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0000524 | Paxs | 950.75 | Joback Method |
| dvisc | 0.0000665 | Paxs | 891.04 | Joback Method |
| dvisc | 0.0000873 | Paxs | 831.34 | Joback Method |
| dvisc | 0.0001195 | Paxs | 771.64 | Joback Method |
| dvisc | 0.0001725 | Paxs | 711.93 | Joback Method |
| dvisc | 0.0002664 | Paxs | 652.23 | Joback Method |

Sources

| | |
|------------------------|---|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |
| Joback Method: | https://en.wikipedia.org/wiki/Joback_method |
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U370054&Units=SI |

Legend

| | |
|-----------------|---|
| cpg: | Ideal gas heat capacity |
| dvisc: | Dynamic viscosity |
| gf: | Standard Gibbs free energy of formation |
| hf: | Enthalpy of formation at standard conditions |
| hfus: | Enthalpy of fusion at standard conditions |
| hvap: | Enthalpy of vaporization at standard conditions |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mcvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| rinpol: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

Latest version available from:

<https://www.chemeo.com/cid/123-892-5/Diethylmalonic-acid-2-4-dichloronaphth-1-yl-hexyl-ester.pdf>

Generated by Cheméo on 2024-04-29 06:59:05.136561815 +0000 UTC m=+16663194.057139131.

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