

Cyclobutane, 1,3-bis[2-(2-isopropyl-3,3-dimethyloxiran-2-yl)ethoxy]

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| Inchi: | InChI=1S/C26H40O4/c1-15(2)25(23(7,8)29-25)13-11-19-21(17(5)27)20(22(19)18(6)28)1 |
| InchiKey: | LPGSGNDUSMQLHZ-PHEQNACWSA-N |
| Formula: | C26H40O4 |
| SMILES: | CC(=O)C1C(G=CC2(C(C)C)OC2(C)C)C(C(C)=O)C1C=CC1(C(C)C)OC1(C)C |
| Mol. weight [g/mol]: | 416.59 |
| CAS: | 70373-02-3 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 3.16 | kJ/mol | Joback Method |
| hf | -673.75 | kJ/mol | Joback Method |
| hfus | 48.08 | kJ/mol | Joback Method |
| hvap | 88.88 | kJ/mol | Joback Method |
| log10ws | -5.83 | | Crippen Method |
| logp | 5.162 | | Crippen Method |
| mcpvol | 350.900 | ml/mol | McGowan Method |
| pc | 1070.76 | kPa | Joback Method |
| rinpol | 2674.00 | | NIST Webbook |
| rinpol | 2674.00 | | NIST Webbook |
| rinpol | 2674.00 | | NIST Webbook |
| tb | 965.46 | K | Joback Method |
| tc | 1195.45 | K | Joback Method |
| tf | 620.32 | K | Joback Method |
| vc | 1.343 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1286.75 | J/molxK | 965.46 | Joback Method |
| cpg | 1325.23 | J/molxK | 1003.79 | Joback Method |
| cpg | 1366.88 | J/molxK | 1042.12 | Joback Method |
| cpg | 1412.26 | J/molxK | 1080.46 | Joback Method |
| cpg | 1461.94 | J/molxK | 1118.79 | Joback Method |
| cpg | 1516.50 | J/molxK | 1157.12 | Joback Method |

Sources

| | |
|------------------------|---|
| 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=C70373023&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |

Legend

| | |
|-----------------|---|
| cpg: | Ideal gas heat capacity |
| 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 |

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