

(Z)-1,3-Dimethoxypropan-2-yl tetracos-15-enoate

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|----------------------|--|
| Inchi: | InChI=1S/C29H56O4/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25 |
| InchiKey: | UZIZTVFZRAOKRE-QXMHVHEDSA-N |
| Formula: | C29H56O4 |
| SMILES: | CCCCCCCC=CCCCCCCCCCCCCCC(=O)OC(COC)COC |
| Mol. weight [g/mol]: | 468.75 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -172.84 | kJ/mol | Joback Method |
| hf | -1039.19 | kJ/mol | Joback Method |
| hfus | 72.71 | kJ/mol | Joback Method |
| hvap | 93.69 | kJ/mol | Joback Method |
| log10ws | -8.96 | | Crippen Method |
| logp | 8.569 | | Crippen Method |
| mvol | 434.350 | ml/mol | McGowan Method |
| pc | 647.46 | kPa | Joback Method |
| rinpol | 3198.80 | | NIST Webbook |
| rinpol | 3198.80 | | NIST Webbook |
| tb | 987.77 | K | Joback Method |
| tc | 1226.24 | K | Joback Method |
| tf | 513.13 | K | Joback Method |
| vc | 1.694 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 1522.37 | J/molxK | 987.77 | Joback Method |
| cpg | 1622.04 | J/molxK | 1186.49 | Joback Method |
| cpg | 1605.90 | J/molxK | 1146.75 | Joback Method |
| cpg | 1587.94 | J/molxK | 1107.00 | Joback Method |
| cpg | 1568.09 | J/molxK | 1067.26 | Joback Method |
| cpg | 1546.25 | J/molxK | 1027.51 | Joback Method |
| cpg | 1636.44 | J/molxK | 1226.24 | Joback Method |
| dvisc | 0.0000085 | Paxs | 987.77 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0000117 | Paxs | 908.66 | Joback Method |
| dvisc | 0.0000172 | Paxs | 829.56 | Joback Method |
| dvisc | 0.0000274 | Paxs | 750.45 | Joback Method |
| dvisc | 0.0000487 | Paxs | 671.34 | Joback Method |
| dvisc | 0.0001011 | Paxs | 592.24 | Joback Method |
| dvisc | 0.0002627 | Paxs | 513.13 | 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=U412823&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |

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 |

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