

1,2,4-Benzenetricarboxylic acid, trioctyl ester (iso)

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|----------------------|--|
| Inchi: | InChI=1S/C33H54O6/c1-4-7-10-13-16-19-24-37-31(34)28-22-23-29(32(35)38-25-20-17-1 |
| InchiKey: | JNXDCMUUZNIWPQ-UHFFFAOYSA-N |
| Formula: | C33H54O6 |
| SMILES: | CCCCCCCCOC(=O)c1ccc(C(=O)OCCCCCCCC)c(C(=O)OCCCCCCCC)c1 |
| Mol. weight [g/mol]: | 546.78 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|---------|----------------|
| gf | -381.63 | kJ/mol | Joback Method |
| hf | -1245.26 | kJ/mol | Joback Method |
| hfus | 82.85 | kJ/mol | Joback Method |
| hvap | 120.12 | kJ/mol | Joback Method |
| log10ws | -10.99 | | Crippen Method |
| logp | 9.239 | | Crippen Method |
| mcvol | 474.390 | ml/mol | McGowan Method |
| pc | 641.90 | kPa | Joback Method |
| tb | 1219.95 | K | Joback Method |
| tc | 1561.56 | K | Joback Method |
| tf | 729.61 | K | Joback Method |
| vc | 1.847 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 1716.89 | J/molxK | 1219.95 | Joback Method |
| cpg | 1730.99 | J/molxK | 1276.89 | Joback Method |
| cpg | 1740.91 | J/molxK | 1333.82 | Joback Method |
| cpg | 1746.83 | J/molxK | 1390.76 | Joback Method |
| cpg | 1748.94 | J/molxK | 1447.69 | Joback Method |
| cpg | 1747.42 | J/molxK | 1504.63 | Joback Method |
| cpg | 1742.46 | J/molxK | 1561.56 | Joback Method |
| dvisc | 0.0000608 | Paxs | 729.61 | Joback Method |
| dvisc | 0.0000329 | Paxs | 811.33 | Joback Method |
| dvisc | 0.0000199 | Paxs | 893.06 | Joback Method |

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|-------|-----------|------|---------|---------------|
| dvisc | 0.0000131 | Paxs | 974.78 | Joback Method |
| dvisc | 0.0000092 | Paxs | 1056.50 | Joback Method |
| dvisc | 0.0000068 | Paxs | 1138.23 | Joback Method |
| dvisc | 0.0000052 | Paxs | 1219.95 | 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=B6010096&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 |
| dvisc: | Dynamic viscosity |
| gf: | Standard Gibbs free energy of formation |
| hf: | Enthalpy of formation at standard conditions |
| hfus: | Enthalpy of fusion at standard conditions |
| hvac: | 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 |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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