

Succinic acid, 2-ethylbutyl nonadecyl ester

| | |
|-----------------------------|--|
| Inchi: | InChI=1S/C29H56O4/c1-4-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-25-32-28(30) |
| InchiKey: | XRHFDFKDHIMHQQ-UHFFFAOYSA-N |
| Formula: | C29H56O4 |
| SMILES: | CCCCCCCCCCCCCCCCCCCCOC(=O)CCC(=O)OCC(CC)CC |
| Mol. weight [g/mol]: | 468.75 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -276.98 | kJ/mol | Joback Method |
| hf | -1136.77 | kJ/mol | Joback Method |
| hfus | 72.92 | kJ/mol | Joback Method |
| hvap | 98.07 | kJ/mol | Joback Method |
| log10ws | -9.45 | | Crippen Method |
| logp | 8.941 | | Crippen Method |
| mvol | 434.350 | ml/mol | McGowan Method |
| pc | 656.79 | kPa | Joback Method |
| rinpol | 3202.00 | | NIST Webbook |
| rinpol | 3202.00 | | NIST Webbook |
| tb | 1015.06 | K | Joback Method |
| tc | 1265.21 | K | Joback Method |
| tf | 545.91 | K | Joback Method |
| vc | 1.702 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 1539.99 | J/molxK | 1015.06 | Joback Method |
| cpg | 1634.42 | J/molxK | 1223.52 | Joback Method |
| cpg | 1619.67 | J/molxK | 1181.83 | Joback Method |
| cpg | 1602.93 | J/molxK | 1140.13 | Joback Method |
| cpg | 1584.14 | J/molxK | 1098.44 | Joback Method |
| cpg | 1563.19 | J/molxK | 1056.75 | Joback Method |
| cpg | 1647.29 | J/molxK | 1265.21 | Joback Method |
| dvisc | 0.0000122 | Paxs | 1015.06 | Joback Method |

| | | | | |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0000167 | Paxs | 936.87 | Joback Method |
| dvisc | 0.0000242 | Paxs | 858.68 | Joback Method |
| dvisc | 0.0000378 | Paxs | 780.49 | Joback Method |
| dvisc | 0.0000652 | Paxs | 702.29 | Joback Method |
| dvisc | 0.0001288 | Paxs | 624.10 | Joback Method |
| dvisc | 0.0003091 | Paxs | 545.91 | 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=U349214&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/90-574-5/Succinic-acid-2-ethylbutyl-nonadecyl-ester.pdf>

Generated by Cheméo on 2024-04-27 02:54:29.92301731 +0000 UTC m=+16475718.843594622.

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