

Succinic acid, butyl 2-propylpentyl ester

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|-----------------------------|--|
| Inchi: | InChI=1S/C16H30O4/c1-4-7-12-19-15(17)10-11-16(18)20-13-14(8-5-2)9-6-3/h14H,4-13H |
| InchiKey: | DYUWPMUWAQGJOD-UHFFFAOYSA-N |
| Formula: | C16H30O4 |
| SMILES: | CCCCOC(=O)CCC(=O)OCC(CCC)CCC |
| Mol. weight [g/mol]: | 286.41 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -386.44 | kJ/mol | Joback Method |
| hf | -868.45 | kJ/mol | Joback Method |
| hfus | 39.25 | kJ/mol | Joback Method |
| hvap | 69.13 | kJ/mol | Joback Method |
| log10ws | -4.00 | | Crippen Method |
| logp | 3.870 | | Crippen Method |
| mvol | 251.180 | ml/mol | McGowan Method |
| pc | 1419.71 | kPa | Joback Method |
| rinpol | 1872.00 | | NIST Webbook |
| rinpol | 1872.00 | | NIST Webbook |
| tb | 717.62 | K | Joback Method |
| tc | 895.76 | K | Joback Method |
| tf | 399.40 | K | Joback Method |
| vc | 0.974 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 734.08 | J/molxK | 717.62 | Joback Method |
| cpg | 809.59 | J/molxK | 866.07 | Joback Method |
| cpg | 796.13 | J/molxK | 836.38 | Joback Method |
| cpg | 781.86 | J/molxK | 806.69 | Joback Method |
| cpg | 766.77 | J/molxK | 777.00 | Joback Method |
| cpg | 750.85 | J/molxK | 747.31 | Joback Method |
| cpg | 822.23 | J/molxK | 895.76 | Joback Method |
| dvisc | 0.0000856 | Paxs | 717.62 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0001142 | Paxs | 664.58 | Joback Method |
| dvisc | 0.0001602 | Paxs | 611.55 | Joback Method |
| dvisc | 0.0002395 | Paxs | 558.51 | Joback Method |
| dvisc | 0.0003898 | Paxs | 505.47 | Joback Method |
| dvisc | 0.0007109 | Paxs | 452.44 | Joback Method |
| dvisc | 0.0015210 | Paxs | 399.40 | 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=U381338&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 |
| 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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