

Glutaric acid, 3-methylbut-2-yl 2,6-dimethylnon-1-en-3-yn-5-yl ester

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|-----------------------------|--|
| Inchi: | InChI=1S/C21H34O4/c1-8-10-17(6)19(14-13-15(2)3)25-21(23)12-9-11-20(22)24-18(7)16 |
| InchiKey: | RXPZONYCZAXTJI-UHFFFAOYSA-N |
| Formula: | C21H34O4 |
| SMILES: | <chem>C=C(C)C#CC(OC(=O)CCCC(=O)OC(C)C(C)C)C(C)CCC</chem> |
| Mol. weight [g/mol]: | 350.49 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -69.57 | kJ/mol | Joback Method |
| hf | -599.55 | kJ/mol | Joback Method |
| hfus | 42.16 | kJ/mol | Joback Method |
| hvap | 80.66 | kJ/mol | Joback Method |
| log10ws | -5.73 | | Crippen Method |
| logp | 4.672 | | Crippen Method |
| mvol | 308.730 | ml/mol | McGowan Method |
| pc | 1186.60 | kPa | Joback Method |
| rinpol | 2098.00 | | NIST Webbook |
| rinpol | 2098.00 | | NIST Webbook |
| tb | 836.26 | K | Joback Method |
| tc | 1036.82 | K | Joback Method |
| tf | 501.13 | K | Joback Method |
| vc | 1.179 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 954.09 | J/mol×K | 836.26 | Joback Method |
| cpg | 971.84 | J/mol×K | 869.69 | Joback Method |
| cpg | 988.41 | J/mol×K | 903.11 | Joback Method |
| cpg | 1003.83 | J/mol×K | 936.54 | Joback Method |
| cpg | 1018.12 | J/mol×K | 969.96 | Joback Method |
| cpg | 1031.31 | J/mol×K | 1003.39 | Joback Method |
| cpg | 1043.43 | J/mol×K | 1036.82 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U393963&Units=SI |
| 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 |

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 |
| hvpap: | 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 |
| rinpola: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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