

Glutaric acid, di(2,7-dimethyloct-5-yn-7-en-4-yl) ester

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|----------------------|--|
| Inchi: | InChI=1S/C25H36O4/c1-18(2)12-14-22(16-20(5)6)28-24(26)10-9-11-25(27)29-23(17-21(|
| InchiKey: | LLWKXBOEWFLNHR-UHFFFAOYSA-N |
| Formula: | C25H36O4 |
| SMILES: | <chem>C=C(C)C#CC(CC(C)C)OC(=O)CCCC(=O)OC(C#CC(=C)C)CC(C)C</chem> |
| Mol. weight [g/mol]: | 400.55 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 246.20 | kJ/mol | Joback Method |
| hf | -294.17 | kJ/mol | Joback Method |
| hfus | 53.05 | kJ/mol | Joback Method |
| hvap | 91.13 | kJ/mol | Joback Method |
| log10ws | -7.05 | | Crippen Method |
| logp | 5.231 | | Crippen Method |
| mcvol | 352.190 | ml/mol | McGowan Method |
| pc | 1054.14 | kPa | Joback Method |
| rinqol | 2443.00 | | NIST Webbook |
| tb | 933.34 | K | Joback Method |
| tc | 1150.42 | K | Joback Method |
| tf | 636.59 | K | Joback Method |
| vc | 1.347 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1115.71 | J/molxK | 933.34 | Joback Method |
| cpg | 1132.98 | J/molxK | 969.52 | Joback Method |
| cpg | 1148.91 | J/molxK | 1005.70 | Joback Method |
| cpg | 1163.54 | J/molxK | 1041.88 | Joback Method |
| cpg | 1176.93 | J/molxK | 1078.06 | Joback Method |
| cpg | 1189.11 | J/molxK | 1114.24 | Joback Method |
| cpg | 1200.12 | J/molxK | 1150.42 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U359851&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 |
| hvap: | Enthalpy of vaporization at standard conditions |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mccvol: | 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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