

(Z)-«gamma»-Curcumen-12-yl 2-methylbutyrate

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| Inchi: | InChI=1S/C20H32O2/c1-6-17(4)20(21)22-14-16(3)8-7-9-18(5)19-12-10-15(2)11-13-19/h |
| InchiKey: | RASDHGWJDPAGMV-XYODZVPOSA-N |
| Formula: | C20H32O2 |
| SMILES: | CCC(C)C(=O)OCC(C)=CCCC(C)C1=CC=C(C)CC1 |
| Mol. weight [g/mol]: | 304.47 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 23.21 | kJ/mol | Joback Method |
| hf | -436.78 | kJ/mol | Joback Method |
| hfus | 34.62 | kJ/mol | Joback Method |
| hvap | 71.18 | kJ/mol | Joback Method |
| log10ws | -6.03 | | Crippen Method |
| logp | 5.605 | | Crippen Method |
| mcvol | 276.340 | ml/mol | McGowan Method |
| pc | 1332.96 | kPa | Joback Method |
| rinpol | 2025.00 | | NIST Webbook |
| rinpol | 2025.00 | | NIST Webbook |
| tb | 768.95 | K | Joback Method |
| tc | 971.56 | K | Joback Method |
| tf | 376.46 | K | Joback Method |
| vc | 1.054 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 828.63 | J/mol×K | 768.95 | Joback Method |
| cpg | 847.83 | J/mol×K | 802.72 | Joback Method |
| cpg | 865.89 | J/mol×K | 836.49 | Joback Method |
| cpg | 882.85 | J/mol×K | 870.25 | Joback Method |
| cpg | 898.75 | J/mol×K | 904.02 | Joback Method |
| cpg | 913.65 | J/mol×K | 937.79 | Joback Method |
| cpg | 927.59 | J/mol×K | 971.56 | 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=R233266&Units=SI |

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 |
| 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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