

2-methyl-2-butenyl 2-methylbutanoate

| | |
|-----------------------------|---|
| Inchi: | InChI=1S/C10H18O2/c1-5-8(3)7-12-10(11)9(4)6-2/h5,9H,6-7H2,1-4H3/b8-5+ |
| InchiKey: | NLADHFLYQUEJGQ-VMPITWQZSA-N |
| Formula: | C10H18O2 |
| SMILES: | CC=C(C)COC(=O)C(C)CC |
| Mol. weight [g/mol]: | 170.25 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -131.37 | kJ/mol | Joback Method |
| hf | -392.38 | kJ/mol | Joback Method |
| hfus | 19.81 | kJ/mol | Joback Method |
| hvap | 46.66 | kJ/mol | Joback Method |
| log10ws | -2.48 | | Crippen Method |
| logp | 2.542 | | Crippen Method |
| mcvol | 154.900 | ml/mol | McGowan Method |
| pc | 2340.56 | kPa | Joback Method |
| ripol | 1400.00 | | NIST Webbook |
| tb | 508.09 | K | Joback Method |
| tc | 694.82 | K | Joback Method |
| tf | 240.58 | K | Joback Method |
| vc | 0.595 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 350.82 | J/mol×K | 508.09 | Joback Method |
| cpg | 365.21 | J/mol×K | 539.21 | Joback Method |
| cpg | 378.95 | J/mol×K | 570.33 | Joback Method |
| cpg | 392.08 | J/mol×K | 601.46 | Joback Method |
| cpg | 404.60 | J/mol×K | 632.58 | Joback Method |
| cpg | 416.53 | J/mol×K | 663.70 | Joback Method |
| cpg | 427.88 | J/mol×K | 694.82 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=R322420&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 |
| ripol: | 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/76-546-2/2-methyl-2-butenyl-2-methylbutanoate.pdf>

Generated by Cheméo on 2024-04-29 14:06:40.65972096 +0000 UTC m=+16688849.580298272.

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