

2-Propyn-1-ol, benzoate

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|-----------------------------|--|
| Other names: | 2-propynyl benzoate |
| Inchi: | InChI=1S/C10H8O2/c1-2-8-12-10(11)9-6-4-3-5-7-9/h1,3-7H,8H2 |
| InchiKey: | NBDHEMWCIUHARG-UHFFFAOYSA-N |
| Formula: | C10H8O2 |
| SMILES: | C#CCOC(=O)c1ccccc1 |
| Mol. weight [g/mol]: | 160.17 |
| CAS: | 6750-04-5 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|--------|----------------|
| gf | 134.88 | kJ/mol | Joback Method |
| hf | 33.90 | kJ/mol | Joback Method |
| hfus | 21.46 | kJ/mol | Joback Method |
| hvap | 49.14 | kJ/mol | Joback Method |
| log10ws | -2.35 | | Crippen Method |
| logp | 1.477 | | Crippen Method |
| mcvol | 126.840 | ml/mol | McGowan Method |
| pc | 3659.77 | kPa | Joback Method |
| rinpol | 1262.00 | | NIST Webbook |
| rinpol | 1262.00 | | NIST Webbook |
| rinpol | 1263.00 | | NIST Webbook |
| rinpol | 1262.00 | | NIST Webbook |
| rinpol | 1235.00 | | NIST Webbook |
| rinpol | 1265.00 | | NIST Webbook |
| rinpol | 1249.00 | | NIST Webbook |
| rinpol | 1254.00 | | NIST Webbook |
| rinpol | 1263.00 | | NIST Webbook |
| rinpol | 1247.00 | | NIST Webbook |
| rinpol | 1241.00 | | NIST Webbook |
| rinpol | 1245.00 | | NIST Webbook |
| rinpol | 1245.00 | | NIST Webbook |
| rinpol | 1252.00 | | NIST Webbook |
| ripol | 2003.00 | | NIST Webbook |
| ripol | 2004.00 | | NIST Webbook |
| ripol | 1998.00 | | NIST Webbook |
| ripol | 2003.00 | | NIST Webbook |
| ripol | 2004.00 | | NIST Webbook |

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|-------|---------|----------------------|---------------|
| ripol | 2017.00 | | NIST Webbook |
| ripol | 2026.00 | | NIST Webbook |
| ripol | 1981.00 | | NIST Webbook |
| ripol | 2026.00 | | NIST Webbook |
| tb | 521.29 | K | Joback Method |
| tc | 749.90 | K | Joback Method |
| tf | 348.01 | K | Joback Method |
| vc | 0.473 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 265.07 | J/mol×K | 521.29 | Joback Method |
| cpg | 277.09 | J/mol×K | 559.39 | Joback Method |
| cpg | 288.33 | J/mol×K | 597.49 | Joback Method |
| cpg | 298.81 | J/mol×K | 635.60 | Joback Method |
| cpg | 308.56 | J/mol×K | 673.70 | Joback Method |
| cpg | 317.62 | J/mol×K | 711.80 | Joback Method |
| cpg | 326.00 | J/mol×K | 749.90 | 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=C6750045&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 |

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|-----------------|-------------------------------------|
| 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 |
| ripol: | Polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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