# Ethyl p-bis(2-hydroxyethyl)aminobenzoate

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|---|---|
| **Other names:** | Benzoic acid, p-(bis(2-hydroxyethyl)amino)-, ethyl ester |
| | Benzoic acid, 4-(bis(2-hydroxyethyl)amino)-, ethyl ester |
| | PEG-25 PABA |
| | Uvinul P 25 |
| **Inchi:** | InChI=1S/C13H19NO4/c1-2-18-13(17)11-3-5-12(6-4-11)14(7-9-15)8-10-16/h3-6,15-16H, |
| **InchiKey:** | XFPHFLGZXKHBMU-UHFFFAOYSA-N |
| **Formula:** | C13H19NO4 |
| **SMILES:** | CCOC(=O)c1ccc(N(CCO)CCO)cc1 |
| **Mol. weight [g/mol]:** | 253.29 |
| **CAS:** | 15716-30-0 |

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -235.42 | kJ/mol | Joback Method |
| hf | -568.32 | kJ/mol | Joback Method |
| hfus | 37.06 | kJ/mol | Joback Method |
| hvap | 92.03 | kJ/mol | Joback Method |
| log10ws | -1.40 | | Crippen Method |
| logp | 0.654 | | Crippen Method |
| mcvol | 199.430 | ml/mol | McGowan Method |
| pc | 2707.03 | kPa | Joback Method |
| tb | 801.59 | K | Joback Method |
| tc | 991.78 | K | Joback Method |
| tf | 501.48 | K | Joback Method |
| vc | 0.736 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 593.55 | J/mol×K | 801.59 | Joback Method |
| cpg | 604.52 | J/mol×K | 833.29 | Joback Method |
| cpg | 614.80 | J/mol×K | 864.99 | Joback Method |
| cpg | 624.40 | J/mol×K | 896.69 | Joback Method |
| cpg | 633.35 | J/mol×K | 928.39 | Joback Method |

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|---|---|---|---|---|
| cpg | 641.69 | J/mol×K | 960.08 | Joback Method |
| cpg | 649.42 | J/mol×K | 991.78 | Joback Method |

# Sources

| | |
|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C15716300&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **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 |
| **mcvol:** | McGowan's characteristic volume |
| **pc:** | Critical Pressure |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |

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