

Phenol, 2,6-bis(1,1-dimethylethyl)-4-(methoxymethyl)-

Other names:

p-Cresol, 2,6-di-tert-butyl-«alpha»-methoxy-

Ethyl Antioxidant 762

Ionol 4

2,6-di-tert-Butyl-«alpha»-methoxy-para-cresol

DTB

Methyl ether of 3,5-di-tert-butyl-4-hydroxybenzene

Phenol, 2,6-di-tert-butyl-4-methoxymethyl-

2,6-Di-tert-butyl-4-methoxymethylphenol

2,6-Di-tert-butyl-«alpha»-methoxy-p-cresol

3,5-Di-tert-butyl-4-hydroxybenzyl methyl ether

4-Methoxymethyl-2,6-di-tert-butylphenol

Agidol 42

NSC 39711

Inchi: InChI=1S/C16H26O2/c1-15(2,3)12-8-11(10-18-7)9-13(14(12)17)16(4,5)6/h8-9,17H,10H2

InchiKey: SCXYLTWTWUGEAA-UHFFFAOYSA-N

Formula: C16H26O2

SMILES: COCc1cc(C(C)(C)C)c(O)c(C(C)(C)C)c1

Mol. weight [g/mol]: 250.38

CAS: 87-97-8

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------------|----------------------|----------------|
| gf | -76.95 | kJ/mol | Joback Method |
| hf | -487.01 | kJ/mol | Joback Method |
| hfus | 22.60 | kJ/mol | Joback Method |
| hvap | 67.64 | kJ/mol | Joback Method |
| log10ws | -4.03 | | Crippen Method |
| logp | 4.134 | | Crippen Method |
| mcvol | 224.280 | ml/mol | McGowan Method |
| pc | 1918.62 | kPa | Joback Method |
| tb | 698.70 | K | Joback Method |
| tc | 918.63 | K | Joback Method |
| tf | 374.40 ± 0.20 | K | NIST Webbook |
| vc | 0.785 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 643.65 | J/molxK | 698.70 | Joback Method |
| cpg | 722.49 | J/molxK | 881.97 | Joback Method |
| cpg | 708.43 | J/molxK | 845.32 | Joback Method |
| cpg | 693.63 | J/molxK | 808.66 | Joback Method |
| cpg | 677.97 | J/molxK | 772.01 | Joback Method |
| cpg | 661.35 | J/molxK | 735.35 | Joback Method |
| cpg | 735.92 | J/molxK | 918.63 | Joback Method |
| dvisc | 0.0000076 | Paxs | 698.70 | Joback Method |
| dvisc | 0.0000115 | Paxs | 658.97 | Joback Method |
| dvisc | 0.0000185 | Paxs | 619.24 | Joback Method |
| dvisc | 0.0000317 | Paxs | 579.52 | Joback Method |
| dvisc | 0.0000587 | Paxs | 539.79 | Joback Method |
| dvisc | 0.0001202 | Paxs | 500.06 | Joback Method |
| dvisc | 0.0002782 | Paxs | 460.33 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C87978&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 |
| dvisc: | Dynamic viscosity |
| 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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