

Vinyl ethyl carbitol

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|-----------------------------|------------------------------------------------------------|
| Other names: | 2-[2-[2-(ethenyloxy)ethoxy]ethoxy]ethanol |
| Inchi: | InChI=1S/C8H16O4/c1-2-10-5-6-12-8-7-11-4-3-9/h2,9H,1,3-8H2 |
| InchiKey: | XRWBKKGATZNBFW-UHFFFAOYSA-N |
| Formula: | C8H16O4 |
| SMILES: | C=COCCOCCOCCO |
| Mol. weight [g/mol]: | 176.21 |
| CAS: | 929-72-6 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -347.50 | kJ/mol | Joback Method |
| hf | -631.91 | kJ/mol | Joback Method |
| hfus | 22.85 | kJ/mol | Joback Method |
| hvap | 56.64 | kJ/mol | Joback Method |
| log10ws | -0.05 | | Crippen Method |
| logp | 0.172 | | Crippen Method |
| mcvol | 142.760 | ml/mol | McGowan Method |
| pc | 2761.36 | kPa | Joback Method |
| tb | 538.56 | K | Joback Method |
| tc | 701.04 | K | Joback Method |
| tf | 305.67 | K | Joback Method |
| vc | 0.537 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 344.69 | J/mol×K | 538.56 | Joback Method |
| cpg | 355.36 | J/mol×K | 565.64 | Joback Method |
| cpg | 365.71 | J/mol×K | 592.72 | Joback Method |
| cpg | 375.72 | J/mol×K | 619.80 | Joback Method |
| cpg | 385.40 | J/mol×K | 646.88 | Joback Method |
| cpg | 394.73 | J/mol×K | 673.96 | Joback Method |
| cpg | 403.71 | J/mol×K | 701.04 | Joback Method |
| dvisc | 0.0059188 | Paxs | 305.67 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0018987 | Paxs | 344.49 | Joback Method |
| dvisc | 0.0007668 | Paxs | 383.30 | Joback Method |
| dvisc | 0.0003659 | Paxs | 422.12 | Joback Method |
| dvisc | 0.0001977 | Paxs | 460.93 | Joback Method |
| dvisc | 0.0001176 | Paxs | 499.75 | Joback Method |
| dvisc | 0.0000754 | Paxs | 538.56 | Joback Method |

Sources

| | |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C929726&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 |

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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