# tri-Propoxylated neopentyl glycol diacrylate

**Inchi:** InChI=1S/C20H34O7/c1-8-18(21)26-16(4)11-24-14-20(6,7)13-23-10-15(3)25-12-17(5)27-
**InchiKey:** GVAKVLUFUQSBNI-UHFFFAOYSA-N
**Formula:** C20H34O7
**SMILES:** C=CC(=O)OC(C)COCC(C)(C)COCC(C)OCC(C)OC(=O)C=C
**Mol. weight [g/mol]:** 386.48

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -494.12 | kJ/mol | Joback Method |
| hf | -1116.12 | kJ/mol | Joback Method |
| hfus | 36.15 | kJ/mol | Joback Method |
| hvap | 81.86 | kJ/mol | Joback Method |
| log10ws | -2.98 | | Crippen Method |
| logp | 2.686 | | Crippen Method |
| mcvol | 316.550 | ml/mol | McGowan Method |
| pc | 1133.67 | kPa | Joback Method |
| rinpol | 2127.00 | | NIST Webbook |
| rinpol | 2156.00 | | NIST Webbook |
| tb | 865.65 | K | Joback Method |
| tc | 1063.48 | K | Joback Method |
| tf | 480.07 | K | Joback Method |
| vc | 1.190 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 1009.21 | J/mol×K | 865.65 | Joback Method |
| cpg | 1025.54 | J/mol×K | 898.62 | Joback Method |
| cpg | 1040.59 | J/mol×K | 931.59 | Joback Method |
| cpg | 1054.36 | J/mol×K | 964.57 | Joback Method |
| cpg | 1066.86 | J/mol×K | 997.54 | Joback Method |
| cpg | 1078.10 | J/mol×K | 1030.51 | Joback Method |
| cpg | 1088.09 | J/mol×K | 1063.48 | Joback Method |
| dvisc | 0.0003991 | Pa×s | 480.07 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0001679 | Pa×s | 544.33 | Joback Method |
| dvisc | 0.0000848 | Pa×s | 608.60 | Joback Method |
| dvisc | 0.0000488 | Pa×s | 672.86 | Joback Method |
| dvisc | 0.0000309 | Pa×s | 737.12 | Joback Method |
| dvisc | 0.0000211 | Pa×s | 801.39 | Joback Method |
| dvisc | 0.0000152 | Pa×s | 865.65 | Joback Method |

# Sources

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|---|---|
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=R508253&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 |
| **rinpol:** | Non-polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |