

2,2-dimethylpropane-1,3-diyl diacrylate

Other names:	neopentyl glycol diacrylate
Inchi:	InChI=1S/C11H16O4/c1-5-9(12)14-7-11(3,4)8-15-10(13)6-2/h5-6H,1-2,7-8H2,3-4H3
InchiKey:	MXFQRSUWYYSPOC-UHFFFAOYSA-N
Formula:	C11H16O4
SMILES:	C=CC(=O)OCC(C)(C)COC(=O)C=C
Mol. weight [g/mol]:	212.25

Physical Properties

Property code	Value	Unit	Source
af	0.6618		Cheméo Relay (1.0)
hf	-699.64	kJ/mol	Cheméo Relay (1.0)
hfus	19.85	kJ/mol	Joback Method
hvap	64.66	kJ/mol	Cheméo Relay (1.0)
ie	10.05	eV	Cheméo Relay (1.0)
log10ws	-2.52		Cheméo Relay (1.0)
logp	1.471		Crippen Method
mcvol	172.130	ml/mol	McGowan Method
pc	2313.61	kPa	Joback Method
tb	514.99	K	Cheméo Relay (1.0)
tc	686.14	K	Cheméo Relay (1.0)
tf	326.17	K	Cheméo Relay (1.0)
vc	0.616	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	426.39	J/mol×K	593.79	Joback Method
cpg	496.02	J/mol×K	788.14	Joback Method
cpg	486.11	J/mol×K	755.75	Joback Method
cpg	475.54	J/mol×K	723.36	Joback Method
cpg	464.31	J/mol×K	690.97	Joback Method
cpg	452.38	J/mol×K	658.57	Joback Method
cpg	439.75	J/mol×K	626.18	Joback Method
dvisc	0.0004122	Pa×s	475.37	Joback Method

dvisc	0.0001643	Pa×s	593.79	Joback Method
dvisc	0.0002137	Pa×s	554.32	Joback Method
dvisc	0.0002894	Pa×s	514.84	Joback Method
dvisc	0.0019044	Pa×s	356.95	Joback Method
dvisc	0.0006259	Pa×s	435.90	Joback Method
dvisc	0.0010329	Pa×s	396.42	Joback Method

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

Phase behavior measurement for the binary mixture of CO₂ + neopentyl glycol dimethacrylate and CO₂ + neopentyl glycol dimethacrylate systems at high pressure.

<https://www.doi.org/10.1016/j.fluid.2010.09.003>

Joback Method: https://en.wikipedia.org/wiki/Joback_method

McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Legend

af:	Acentric Factor
cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
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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