

VINYL ETHYL CARBITOL

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:XRBWKWGATZNBFW-UHFFFAOYSA-N

Formula:C8H16O4

SMILES:C=COCCOCCOCCO

Mol. weight [g/mol]:176.21

Physical Properties

Property code	Value	Unit	Source
hf	-632.16	kJ/mol	Cheméo Relay (1.0)
hfus	22.85	kJ/mol	Joback Method
hvap	73.27	kJ/mol	Cheméo Relay (1.0)
logp	0.172		Crippen Method
mcvol	142.760	ml/mol	McGowan Method
pc	2761.36	kPa	Joback Method
tb	533.65	K	Cheméo Relay (1.0)
tc	700.12	K	Cheméo Relay (1.0)
tf	244.55	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	344.69	J/mol×K	538.56	Joback Method
cpg	403.71	J/mol×K	701.04	Joback Method
cpg	394.73	J/mol×K	673.96	Joback Method
cpg	385.40	J/mol×K	646.88	Joback Method
cpg	375.72	J/mol×K	619.80	Joback Method
cpg	365.71	J/mol×K	592.72	Joback Method
cpg	355.36	J/mol×K	565.64	Joback Method
dvisc	0.0003659	Pa×s	422.12	Joback Method
dvisc	0.0000754	Pa×s	538.56	Joback Method
dvisc	0.0001176	Pa×s	499.75	Joback Method
dvisc	0.0001977	Pa×s	460.93	Joback Method
dvisc	0.0059188	Pa×s	305.67	Joback Method

dvisc	0.0007668	Pa×s	383.30	Joback Method
dvisc	0.0018987	Pa×s	344.49	Joback Method

Sources

Cheméo Relay (1.0, beta):

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C929726&Units=SI>

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

Cheméo Relay (1.0):

Legend

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
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

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