

Terpinyl ethylene glycol ether

Inchi:	InChI=1S/C12H22O2/c1-10-4-6-11(7-5-10)12(2,3)14-9-8-13/h4,11,13H,5-9H2,1-3H3
InchiKey:	QKELXXNYILOTAV-UHFFFAOYSA-N
Formula:	C12H22O2
SMILES:	CC1=CCC(C(C)(C)OCCO)CC1
Mol. weight [g/mol]:	174.18

Physical Properties

Property code	Value	Unit	Source
hfus	17.37	kJ/mol	Joback Method
logp	2.587		NCMS SOLV-DB
mcvol	176.520	ml/mol	McGowan Method
tb	560.22	K	Cheméo Relay (1.0)
tf	263.42	K	Cheméo Relay (1.0)

Correlations

Information	Value
Property code	cpg
Equation	$Y = A + B \cdot T + C \cdot T^2 + D \cdot T^3 + E \cdot T.$
Y unit	J/mol×K
Coeff. A	-4.52280e+01
Coeff. B	1.24706e+00
Coeff. C	-7.21440e-04
Coeff. D	1.47400e-07
Coeff. E	0.00000e+00
Basis	predicted
Temperature range (K), min.	273.00
Temperature range (K), max.	1000.00

Information	Value
Property code	dvisc
Equation	$Y = \exp(A + B/T + C \cdot \ln(T) + D \cdot T^E)$
Y unit	Pa×s

Coeff. A	-1.55362e+01
Coeff. B	3.49983e+03
Coeff. C	0.00000e+00
Coeff. D	0.00000e+00
Coeff. E	0.00000e+00
Basis	predicted
Comment	Liquid phase. Joback/Reid (1987), valid from Tf to 0.7·Tc.
Temperature range (K), min.	331.13
Temperature range (K), max.	561.75

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NCMS SOLV-DB:	http://solvdb.ncms.org/common01.idc?solvno=NOCAS0014
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hfus:	Enthalpy of fusion at standard conditions
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point

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