(2E)-Dodec-2-en-1-yl methyl ether

Inchi: InChI=1S/C13H26O/c1-3-4-5-6-7-8-9-10-11-12-13-14-2/h11-12H,3-10,13H2,1-2H3/b12-1
InchiKey: VHDLPJILDRILOW-VAWYXSNFSA-N
Formula: C13H26O
SMILES: CCCCCCCCCC=CCOC
Mol. weight [g/mol]: 198.34

Physical Properties

Property code	Value	Unit	Source
gf	33.80	kJ/mol	Joback Method
hf	-326.65	kJ/mol	Joback Method
hfus	30.82	kJ/mol	Joback Method
hvap	46.90	kJ/mol	Joback Method
log10ws	-4.21		Crippen Method
logp	4.330		Crippen Method
mcvol	195.600	ml/mol	McGowan Method
pc	1692.12	kPa	Joback Method
rinpol	1441.50		NIST Webbook
tb	523.42	K	Joback Method
tc	690.13	K	Joback Method
tf	253.42	K	Joback Method
vc	0.761	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	467.95	J/mol×K	523.42	Joback Method
cpg	484.85	J/mol×K	551.21	Joback Method
cpg	501.09	J/mol×K	578.99	Joback Method
cpg	516.68	J/mol×K	606.78	Joback Method
cpg	531.64	J/mol×K	634.56	Joback Method
cpg	545.99	J/mol×K	662.35	Joback Method
cpg	559.74	J/mol×K	690.13	Joback Method
dvisc	0.0038192	Pa×s	253.42	Joback Method
dvisc	0.0014455	Pa×s	298.42	Joback Method

dvisc	0.0007057	Pa×s	343.42	Joback Method
dvisc	0.0004068	Pa×s	388.42	Joback Method
dvisc	0.0002629	Pa×s	433.42	Joback Method
dvisc	0.0001845	Pa×s	478.42	Joback Method
dvisc	0.0001376	Pa×s	523.42	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U334063&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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