Cycloundecene, 1-methoxy-, (Z)-

Inchi: InChI=1S/C12H22O/c1-13-12-10-8-6-4-2-3-5-7-9-11-12/h10H,2-9,11H2,1H3/b12-10+
InchiKey: ZBQOWEVXPQWKGB-ZRDIBKRKSA-N
Formula: C12H22O
SMILES: COC1=CCCCCCCCCC1
Mol. weight [g/mol]: 182.30
CAS: 78289-13-1

Physical Properties

Property code	Value	Unit	Source
gf	-62.85	kJ/mol	Joback Method
hf	-333.06	kJ/mol	Joback Method
hfus	9.12	kJ/mol	Joback Method
hvap	47.27	kJ/mol	Joback Method
log10ws	-4.18		Crippen Method
logp	4.041		Crippen Method
mcvol	170.650	ml/mol	McGowan Method
pc	2492.52	kPa	Joback Method
tb	546.09	K	Joback Method
tc	778.11	K	Joback Method
tf	254.53	K	Joback Method
vc	0.606	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	413.15	J/mol×K	546.09	Joback Method
cpg	437.32	J/mol×K	584.76	Joback Method
cpg	460.17	J/mol×K	623.43	Joback Method
cpg	481.68	J/mol×K	662.10	Joback Method
cpg	501.84	J/mol×K	700.77	Joback Method
cpg	520.62	J/mol×K	739.44	Joback Method
cpg	538.01	J/mol×K	778.11	Joback Method
dvisc	0.0210777	Pa×s	254.53	Joback Method
dvisc	0.0034923	Pa×s	303.12	Joback Method

dvisc	0.0009509	Pa×s	351.72	Joback Method
dvisc	0.0003551	Pa×s	400.31	Joback Method
dvisc	0.0001641	Pa×s	448.90	Joback Method
dvisc	0.0000882	Pa×s	497.50	Joback Method
dvisc	0.0000529	Pa×s	546.09	Joback Method

Sources

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

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C78289131&Units=SI

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
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume