Cycloundecene, 1-methyl-

Inchi: InChI=1S/C12H22/c1-12-10-8-6-4-2-3-5-7-9-11-12/h10H,2-9,11H2,1H3/b12-10-
InchiKey: IAGTWOIELUZWSL-BENRWUELSA-N
Formula: C12H22
SMILES: CC1=CCCCCCCCCC1
Mol. weight [g/mol]: 166.30
CAS: 88828-82-4

Physical Properties

Property code	Value	Unit	Source
gf	42.15	kJ/mol	Joback Method
hf	-200.84	kJ/mol	Joback Method
hfus	7.93	kJ/mol	Joback Method
hvap	44.86	kJ/mol	Joback Method
log10ws	-4.59		Crippen Method
logp	4.457		Crippen Method
mcvol	164.780	ml/mol	McGowan Method
pc	2535.37	kPa	Joback Method
rinpol	1295.00		NIST Webbook
rinpol	1292.00		NIST Webbook
rinpol	1295.00		NIST Webbook
rinpol	1295.00		NIST Webbook
rinpol	1292.00		NIST Webbook
tb	523.67	K	Joback Method
tc	758.79	K	Joback Method
tf	232.30	K	Joback Method
vc	0.588	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	383.57	J/mol×K	523.67	Joback Method
cpg	408.47	J/mol×K	562.86	Joback Method
cpg	431.97	J/mol×K	602.04	Joback Method
cpg	454.07	J/mol×K	641.23	Joback Method

cpg	474.77	J/mol×K	680.41	Joback Method
cpg	494.08	J/mol×K	719.60	Joback Method
cpg	511.98	J/mol×K	758.79	Joback Method
dvisc	0.0489058	Pa×s	232.30	Joback Method
dvisc	0.0064003	Pa×s	280.86	Joback Method
dvisc	0.0015255	Pa×s	329.42	Joback Method
dvisc	0.0005256	Pa×s	377.99	Joback Method
dvisc	0.0002308	Pa×s	426.55	Joback Method
dvisc	0.0001199	Pa×s	475.11	Joback Method
dvisc	0.0000704	Pa×s	523.67	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=C88828824&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
rinpol: Non-polar retention indices
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume

Latest version available from: