

Cycloundecene(E)

Other names:	(E)-Cycloundecene trans-Cycloundecene t-Cycloundecene
Inchi:	InChI=1S/C11H20/c1-2-4-6-8-10-11-9-7-5-3-1/h1-2H,3-11H2/b2-1+
InchiKey:	GMUVJAZTJOCSND-OWOJBTEDSA-N
Formula:	C11H20
SMILES:	C1=CCCCCCCCC1
Mol. weight [g/mol]:	152.28
CAS:	13151-60-5

Physical Properties

Property code	Value	Unit	Source
gf	43.36	kJ/mol	Joback Method
hf	-168.73	kJ/mol	Joback Method
hfus	5.73	kJ/mol	Joback Method
hvap	41.97	kJ/mol	Joback Method
ie	8.73 ± 0.15	eV	NIST Webbook
log10ws	-4.18		Crippen Method
logp	4.067		Crippen Method
mcvol	150.690	ml/mol	McGowan Method
pc	2844.44	kPa	Joback Method
rinpol	1201.80		NIST Webbook
rinpol	1214.00		NIST Webbook
rinpol	1214.00		NIST Webbook
rinpol	1214.00		NIST Webbook
rinpol	1201.80		NIST Webbook
tb	495.81	K	Joback Method
tc	734.15	K	Joback Method
tf	208.51	K	Joback Method
vc	0.531	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	332.50	J/mol×K	495.81	Joback Method
cpg	357.22	J/mol×K	535.53	Joback Method
cpg	380.53	J/mol×K	575.26	Joback Method
cpg	402.43	J/mol×K	614.98	Joback Method
cpg	422.93	J/mol×K	654.70	Joback Method
cpg	442.04	J/mol×K	694.42	Joback Method
cpg	459.75	J/mol×K	734.15	Joback Method
dvisc	0.1549257	Pa×s	208.51	Joback Method
dvisc	0.0139329	Pa×s	256.39	Joback Method
dvisc	0.0026742	Pa×s	304.28	Joback Method
dvisc	0.0008041	Pa×s	352.16	Joback Method
dvisc	0.0003223	Pa×s	400.04	Joback Method
dvisc	0.0001571	Pa×s	447.93	Joback Method
dvisc	0.0000880	Pa×s	495.81	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C13151605&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

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
ie:	Ionization energy
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

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