

Cyclohexane, 1-ethyl-2-propyl-

Other names:	1-ethyl-2-propylcyclohexane
Inchi:	InChI=1S/C11H22/c1-3-7-11-9-6-5-8-10(11)4-2/h10-11H,3-9H2,1-2H3
InchiKey:	NNNKGLVDUYFBHS-UHFFFAOYSA-N
Formula:	C11H22
SMILES:	CCCC1CCCCC1CC
Mol. weight [g/mol]:	154.29
CAS:	62238-33-9

Physical Properties

Property code	Value	Unit	Source
gf	58.48	kJ/mol	Joback Method
hf	-236.39	kJ/mol	Joback Method
hfus	17.15	kJ/mol	Joback Method
hvap	40.20	kJ/mol	Joback Method
log10ws	-3.84		Crippen Method
logp	4.003		Crippen Method
mcvol	154.990	ml/mol	McGowan Method
pc	2263.26	kPa	Joback Method
tb	465.96	K	Joback Method
tc	660.20	K	Joback Method
tf	216.87	K	Joback Method
vc	0.584	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	346.40	J/mol×K	465.96	Joback Method
cpg	367.00	J/mol×K	498.33	Joback Method
cpg	386.65	J/mol×K	530.71	Joback Method
cpg	405.39	J/mol×K	563.08	Joback Method
cpg	423.22	J/mol×K	595.45	Joback Method
cpg	440.17	J/mol×K	627.83	Joback Method
cpg	456.27	J/mol×K	660.20	Joback Method
dvisc	0.0052485	Pa×s	216.87	Joback Method

dvisc	0.0021213	Pa×s	258.38	Joback Method
dvisc	0.0011018	Pa×s	299.90	Joback Method
dvisc	0.0006711	Pa×s	341.41	Joback Method
dvisc	0.0004551	Pa×s	382.93	Joback Method
dvisc	0.0003330	Pa×s	424.44	Joback Method
dvisc	0.0002577	Pa×s	465.96	Joback Method

Sources

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=C62238339&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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

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