

Cycloheptene, 1-propyl

Inchi:	InChI=1S/C10H18/c1-2-7-10-8-5-3-4-6-9-10/h8H,2-7,9H2,1H3
InchiKey:	XIPADJBRNWQRCX-UHFFFAOYSA-N
Formula:	C10H18
SMILES:	CCCC1=CCCCC1
Mol. weight [g/mol]:	138.25

Physical Properties

Property code	Value	Unit	Source
gf	73.71	kJ/mol	Joback Method
hf	-134.92	kJ/mol	Joback Method
hfus	11.15	kJ/mol	Joback Method
hvap	39.72	kJ/mol	Joback Method
log10ws	-3.76		Crippen Method
logp	3.677		Crippen Method
mvol	136.600	ml/mol	McGowan Method
pc	2787.66	kPa	Joback Method
rinpol	1056.00		NIST Webbook
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tb	460.83	K	Joback Method
tc	669.26	K	Joback Method
tf	223.84	K	Joback Method
vc	0.507	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	286.24	J/molxK	460.83	Joback Method
cpg	304.83	J/molxK	495.57	Joback Method
cpg	322.49	J/molxK	530.31	Joback Method
cpg	339.22	J/molxK	565.04	Joback Method
cpg	355.07	J/molxK	599.78	Joback Method
cpg	370.05	J/molxK	634.52	Joback Method
cpg	384.18	J/molxK	669.26	Joback Method
dvisc	0.0098695	Paxs	223.84	Joback Method

dvisc	0.0031797	Paxs	263.34	Joback Method
dvisc	0.0013765	Paxs	302.84	Joback Method
dvisc	0.0007229	Paxs	342.33	Joback Method
dvisc	0.0004338	Paxs	381.83	Joback Method
dvisc	0.0002864	Paxs	421.33	Joback Method
dvisc	0.0002031	Paxs	460.83	Joback Method

Sources

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=R133136&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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

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