

Bicyclo[4.2.0]oct-7-ene

Inchi:	InChI=1S/C8H12/c1-2-4-8-6-5-7(8)3-1/h5-8H,1-4H2
InchiKey:	JCYCKZIGTSZZQT-UHFFFAOYSA-N
Formula:	C8H12
SMILES:	C1=CC2CCCCC12
Mol. weight [g/mol]:	108.18
CAS:	616-10-4

Physical Properties

Property code	Value	Unit	Source
gf	143.74	kJ/mol	Joback Method
hf	-17.39	kJ/mol	Joback Method
hfus	9.77	kJ/mol	Joback Method
hvap	33.86	kJ/mol	Joback Method
log10ws	-2.33		Crippen Method
logp	2.363		Crippen Method
mcvol	97.560	ml/mol	McGowan Method
pc	3718.02	kPa	Joback Method
tb	405.60	K	NIST Webbook
tb	405.70	K	NIST Webbook
tc	615.80	K	Joback Method
tf	209.52	K	Joback Method
vc	0.367	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	185.77	J/molxK	403.62	Joback Method
cpg	202.83	J/molxK	438.98	Joback Method
cpg	218.77	J/molxK	474.35	Joback Method
cpg	233.66	J/molxK	509.71	Joback Method
cpg	247.55	J/molxK	545.07	Joback Method
cpg	260.50	J/molxK	580.43	Joback Method
cpg	272.57	J/molxK	615.80	Joback Method
dvisc	0.0010286	Paxs	209.52	Joback Method

dvisc	0.0008159	Paxs	241.87	Joback Method
dvisc	0.0006835	Paxs	274.22	Joback Method
dvisc	0.0005944	Paxs	306.57	Joback Method
dvisc	0.0005308	Paxs	338.92	Joback Method
dvisc	0.0004835	Paxs	371.27	Joback Method
dvisc	0.0004471	Paxs	403.62	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=C616104&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀w_s:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mc_{vol}:	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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