

Tricyclo[6.1.0.02,4]non-5-ene(1«alpha»,2«alpha»,4«alpha»)

Inchi:	InChI=1S/C9H12/c1-2-6-4-8(6)9-5-7(9)3-1/h1-2,6-9H,3-5H2/t6-,7+,8+,9-/m1/s1
InchiKey:	AEXXQOSXIXRBAS-RYPBNFRJSA-N
Formula:	C9H12
SMILES:	C1=CC2CC2C2CC2C1
Mol. weight [g/mol]:	120.19
CAS:	62211-27-2

Physical Properties

Property code	Value	Unit	Source
gf	229.40	kJ/mol	Joback Method
hf	26.75	kJ/mol	Joback Method
hfus	15.76	kJ/mol	Joback Method
hvap	35.35	kJ/mol	Joback Method
ie	8.90	eV	NIST Webbook
log10ws	-2.16		Crippen Method
logp	2.219		Crippen Method
mcvol	100.790	ml/mol	McGowan Method
pc	3505.43	kPa	Joback Method
tb	420.03	K	Joback Method
tc	629.91	K	Joback Method
tf	241.53	K	Joback Method
vc	0.396	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	214.61	J/mol×K	420.03	Joback Method
cpg	232.64	J/mol×K	455.01	Joback Method
cpg	249.32	J/mol×K	489.99	Joback Method
cpg	264.74	J/mol×K	524.97	Joback Method
cpg	278.99	J/mol×K	559.95	Joback Method
cpg	292.17	J/mol×K	594.93	Joback Method
cpg	304.38	J/mol×K	629.91	Joback Method
dvisc	0.0002633	Pa×s	241.53	Joback Method

dvisc	0.0003673	Pa×s	271.28	Joback Method
dvisc	0.0004798	Pa×s	301.03	Joback Method
dvisc	0.0005973	Pa×s	330.78	Joback Method
dvisc	0.0007171	Pa×s	360.53	Joback Method
dvisc	0.0008374	Pa×s	390.28	Joback Method
dvisc	0.0009565	Pa×s	420.03	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C62211272&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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