

Tricyclo[3.3.1.1^{3,7}]dec-2-yl

Inchi:	InChI=1S/C10H15/c1-7-2-9-4-8(1)5-10(3-7)6-9/h1,7-10H,2-6H2
InchiKey:	YXXKMTIGKAVJTA-UHFFFAOYSA-N
Formula:	C10H15
SMILES:	[CH]1C2CC3CC1CC(C2)C3
Mol. weight [g/mol]:	135.23
CAS:	21517-94-2

Physical Properties

Property code	Value	Unit	Source
gf	240.43	kJ/mol	Joback Method
hf	-22.36	kJ/mol	Joback Method
hfus	17.79	kJ/mol	Joback Method
hvap	37.00	kJ/mol	Joback Method
ie	6.73 ± 0.03	eV	NIST Webbook
ie	6.99 ± 0.05	eV	NIST Webbook
log10ws	-2.34		Crippen Method
logp	2.647		Crippen Method
mcvol	117.030	ml/mol	McGowan Method
pc	3138.51	kPa	Joback Method
tb	442.65	K	Joback Method
tc	652.11	K	Joback Method
tf	260.65	K	Joback Method
vc	0.448	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	265.86	J/mol×K	442.65	Joback Method
cpg	354.21	J/mol×K	617.20	Joback Method
cpg	339.11	J/mol×K	582.29	Joback Method
cpg	322.84	J/mol×K	547.38	Joback Method
cpg	305.28	J/mol×K	512.47	Joback Method
cpg	286.32	J/mol×K	477.56	Joback Method
cpg	368.23	J/mol×K	652.11	Joback Method

dvisc	0.0017284	Pa×s	442.65	Joback Method
dvisc	0.0014560	Pa×s	412.32	Joback Method
dvisc	0.0011937	Pa×s	381.98	Joback Method
dvisc	0.0009456	Pa×s	351.65	Joback Method
dvisc	0.0007169	Pa×s	321.32	Joback Method
dvisc	0.0005130	Pa×s	290.98	Joback Method
dvisc	0.0003395	Pa×s	260.65	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C21517942&Units=SI

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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