

Tricyclo[5.3.0.0(2.6)]deca-1(7)-ene

Inchi:	InChI=1S/C10H14/c1-3-7-8(4-1)10-6-2-5-9(7)10/h7-8H,1-6H2
InchiKey:	JZIWNLCIOSSFNE-UHFFFAOYSA-N
Formula:	C10H14
SMILES:	C1CC2=C(C1)C1CCCC21
Mol. weight [g/mol]:	134.22
CAS:	82834-02-4

Physical Properties

Property code	Value	Unit	Source
gf	221.88	kJ/mol	Joback Method
hf	155.00	kJ/mol	NIST Webbook
hfus	13.33	kJ/mol	Joback Method
hvap	39.69	kJ/mol	Joback Method
log10ws	-3.06		Crippen Method
logp	2.897		Crippen Method
mcvol	114.880	ml/mol	McGowan Method
pc	3364.54	kPa	Joback Method
tb	466.48	K	Joback Method
tc	685.72	K	Joback Method
tf	282.80	K	Joback Method
vc	0.446	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	260.16	J/mol×K	466.48	Joback Method
cpg	278.07	J/mol×K	503.02	Joback Method
cpg	294.63	J/mol×K	539.56	Joback Method
cpg	309.96	J/mol×K	576.10	Joback Method
cpg	324.15	J/mol×K	612.64	Joback Method
cpg	337.32	J/mol×K	649.18	Joback Method
cpg	349.57	J/mol×K	685.72	Joback Method
dvisc	0.0010280	Paxs	282.80	Joback Method
dvisc	0.0010397	Paxs	313.41	Joback Method

dvisc	0.0010494	Paxs	344.03	Joback Method
dvisc	0.0010576	Paxs	374.64	Joback Method
dvisc	0.0010646	Paxs	405.25	Joback Method
dvisc	0.0010706	Paxs	435.87	Joback Method
dvisc	0.0010759	Paxs	466.48	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C82834024&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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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