Tetracyclo[5.2.1.02,6.03,5]decane,(1α,2&#94

Other names: Tetracyclo[5.2.1.0
Inchi: InChI=1S/C10H14/c1-2-6-3-5(1)9-7-4-8(7)10(6)9/h5-10H,1-4H2
InchiKey: RQMXABDSHYTRIF-UHFFFAOYSA-N
Formula: C10H14
SMILES: C1CC2CC1C1C3CC3C21
Mol. weight [g/mol]: 134.22

Physical Properties

Property code	Value	Unit	Source
hf	136.57	kJ/mol	Cheméo Relay (1.0)
hfus	20.54	kJ/mol	Joback Method
hvap	46.23	kJ/mol	Cheméo Relay (1.0)
ie	9.20 ± 0.03	eV	NIST Webbook
logp	2.298		Crippen Method
mcvol	108.320	ml/mol	McGowan Method
tb	445.91	K	Cheméo Relay (1.0)
tf	427.44	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	259.25	J/mol×K	437.28	Joback Method
cpg	357.85	J/mol×K	642.66	Joback Method
cpg	344.49	J/mol×K	608.43	Joback Method
cpg	330.07	J/mol×K	574.20	Joback Method
cpg	314.45	J/mol×K	539.97	Joback Method
cpg	297.53	J/mol×K	505.74	Joback Method
cpg	279.17	J/mol×K	471.51	Joback Method
dvisc	0.0010374	Pa×s	355.03	Joback Method
dvisc	0.0025990	Pa×s	437.28	Joback Method
dvisc	0.0019936	Pa×s	409.86	Joback Method
dvisc	0.0014722	Pa×s	382.45	Joback Method
dvisc	0.0002380	Pa×s	272.78	Joback Method
dvisc	0.0006894	Pa×s	327.61	Joback Method

dvisc	0.0004252	Pa×s	300.20	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C53862365&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point