

Spiro[4.5]dec-6-ene

Inchi:	InChI=1S/C10H16/c1-2-6-10(7-3-1)8-4-5-9-10/h2,6H,1,3-5,7-9H2
InchiKey:	XWMQTBGGOQTTMW-UHFFFAOYSA-N
Formula:	C10H16
SMILES:	<chem>C1=CC2(CCC1)CCCC2</chem>
Mol. weight [g/mol]:	136.23
CAS:	697-28-9

Physical Properties

Property code	Value	Unit	Source
gf	138.60	kJ/mol	Joback Method
hf	-35.41	kJ/mol	Joback Method
hfus	3.38	kJ/mol	Joback Method
hvap	37.82	kJ/mol	Joback Method
log10ws	-3.41		Crippen Method
logp	3.287		Crippen Method
mcvol	125.740	ml/mol	McGowan Method
pc	3443.98	kPa	Joback Method
tb	462.83	K	Joback Method
tc	697.85	K	Joback Method
tf	253.16	K	Joback Method
vc	0.463	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	271.51	J/mol×K	462.83	Joback Method
cpg	292.59	J/mol×K	502.00	Joback Method
cpg	311.92	J/mol×K	541.17	Joback Method
cpg	329.67	J/mol×K	580.34	Joback Method
cpg	346.05	J/mol×K	619.51	Joback Method
cpg	361.23	J/mol×K	658.68	Joback Method
cpg	375.41	J/mol×K	697.85	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=C697289&Units=SI

Legend

cpg:	Ideal gas heat capacity
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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