

4-Isopropyl-2,3-dimethyl-1-cyclopentene

Inchi:	InChI=1S/C10H18/c1-7(2)10-6-5-8(3)9(10)4/h5,7,9-10H,6H2,1-4H3
InchiKey:	MAQKCOQCCJXUIL-UHFFFAOYSA-N
Formula:	C10H18
SMILES:	CC1=CCC(C(C)C)C1C
Mol. weight [g/mol]:	138.25
CAS:	6912-05-6

Physical Properties

Property code	Value	Unit	Source
gf	80.05	kJ/mol	Joback Method
hf	-168.56	kJ/mol	Joback Method
hfus	13.97	kJ/mol	Joback Method
hvap	38.37	kJ/mol	Joback Method
log10ws	-3.03		Crippen Method
logp	3.245		Crippen Method
mcvol	136.600	ml/mol	McGowan Method
pc	2495.01	kPa	Joback Method
tb	442.51	K	Joback Method
tc	639.15	K	Joback Method
tf	207.40	K	Joback Method
vc	0.515	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	287.32	J/mol×K	442.51	Joback Method
cpg	367.62	J/mol×K	606.38	Joback Method
cpg	353.10	J/mol×K	573.61	Joback Method
cpg	337.82	J/mol×K	540.83	Joback Method
cpg	321.78	J/mol×K	508.06	Joback Method
cpg	304.95	J/mol×K	475.28	Joback Method
cpg	381.43	J/mol×K	639.15	Joback Method
dvisc	0.0002675	Paxs	442.51	Joback Method
dvisc	0.0003193	Paxs	403.32	Joback Method

dvisc	0.0003959	Paxs	364.14	Joback Method
dvisc	0.0005170	Paxs	324.95	Joback Method
dvisc	0.0007265	Paxs	285.77	Joback Method
dvisc	0.0011373	Paxs	246.59	Joback Method
dvisc	0.0021092	Paxs	207.40	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.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=C6912056&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
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mccvol:	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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