

bicyclo[4.4.0]dec-1-en, 2-isopropyl-

Inchi:	InChI=1S/C13H22/c1-10(2)12-8-7-11-5-3-4-6-13(11)9-12/h9-11,13H,3-8H2,1-2H3
InchiKey:	MBEYPXVAFDUNPV-UHFFFAOYSA-N
Formula:	C13H22
SMILES:	CC(C)C1=CC2CCCCC2CC1
Mol. weight [g/mol]:	178.31

Physical Properties

Property code	Value	Unit	Source
gf	149.57	kJ/mol	Joback Method
hf	-149.66	kJ/mol	Joback Method
hfus	14.61	kJ/mol	Joback Method
hvap	45.61	kJ/mol	Joback Method
log10ws	-4.18		Crippen Method
logp	4.169		Crippen Method
mcvol	168.010	ml/mol	McGowan Method
pc	2318.07	kPa	Joback Method
ripol	1715.00		NIST Webbook
ripol	1715.00		NIST Webbook
tb	531.10	K	Joback Method
tc	750.94	K	Joback Method
tf	256.35	K	Joback Method
vc	0.625	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	417.25	J/molxK	531.10	Joback Method
cpg	440.26	J/molxK	567.74	Joback Method
cpg	461.89	J/molxK	604.38	Joback Method
cpg	482.18	J/molxK	641.02	Joback Method
cpg	501.20	J/molxK	677.66	Joback Method
cpg	519.00	J/molxK	714.30	Joback Method
cpg	535.64	J/molxK	750.94	Joback Method
dvisc	0.0041672	Paxs	256.35	Joback Method

dvisc	0.0019936	Paxs	302.14	Joback Method
dvisc	0.0011580	Paxs	347.93	Joback Method
dvisc	0.0007632	Paxs	393.73	Joback Method
dvisc	0.0005487	Paxs	439.52	Joback Method
dvisc	0.0004198	Paxs	485.31	Joback Method
dvisc	0.0003364	Paxs	531.10	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R330293&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

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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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