

(trans-2,3-Methylene)nonyl-cyclopropane

Inchi: InChI=1S/C13H24/c1-2-3-4-5-6-12-10-13(12)9-11-7-8-11/h11-13H,2-10H2,1H3/t12-,13-/r
InchiKey: DJQLKYQZYFUZRJ-STQMWFEEESA-N
Formula: C13H24
SMILES: CCCCCC1CC1CC1CC1
Mol. weight [g/mol]: 180.33

Physical Properties

Property code	Value	Unit	Source
gf	172.37	kJ/mol	Joback Method
hf	-186.39	kJ/mol	Joback Method
hfus	26.77	kJ/mol	Joback Method
hvap	44.05	kJ/mol	Joback Method
log10ws	-4.33		Crippen Method
logp	4.393		Crippen Method
mcvol	172.310	ml/mol	McGowan Method
pc	1994.77	kPa	Joback Method
rinpol	1264.80		NIST Webbook
rinpol	1264.80		NIST Webbook
tb	505.65	K	Joback Method
tc	689.24	K	Joback Method
tf	267.91	K	Joback Method
vc	0.676	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	429.55	J/mol×K	505.65	Joback Method
cpg	449.64	J/mol×K	536.25	Joback Method
cpg	468.68	J/mol×K	566.85	Joback Method
cpg	486.71	J/mol×K	597.45	Joback Method
cpg	503.80	J/mol×K	628.04	Joback Method
cpg	520.00	J/mol×K	658.64	Joback Method
cpg	535.35	J/mol×K	689.24	Joback Method
dvisc	0.0013484	Paxs	267.91	Joback Method

dvisc	0.0011927	Paxs	307.53	Joback Method
dvisc	0.0010850	Paxs	347.16	Joback Method
dvisc	0.0010063	Paxs	386.78	Joback Method
dvisc	0.0009464	Paxs	426.40	Joback Method
dvisc	0.0008995	Paxs	466.03	Joback Method
dvisc	0.0008617	Paxs	505.65	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R138082&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
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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