1-Methyl-trans-2-(trans-3,4-methylenepentyl)-cycl

Inchi: InChI=1S/C10H18/c1-7-5-9(7)3-4-10-6-8(10)2/h7-10H,3-6H2,1-2H3/t7-,8?,9-,10?/m1/s1
InchiKey: WFOQFWIOHOVKTQ-PRWFHZCQSA-N
Formula: C10H18
SMILES: CC1CC1CCC1CC1C
Mol. weight [g/mol]: 138.25

Physical Properties

Property code	Value	Unit	Source
gf	139.40	kJ/mol	Joback Method
hf	-144.81	kJ/mol	Joback Method
hfus	20.07	kJ/mol	Joback Method
hvap	37.06	kJ/mol	Joback Method
log10ws	-2.83		Crippen Method
logp	3.079		Crippen Method
mcvol	130.040	ml/mol	McGowan Method
pc	2540.49	kPa	Joback Method
rinpol	933.60		NIST Webbook
rinpol	931.20		NIST Webbook
rinpol	933.60		NIST Webbook
tb	432.34	K	Joback Method
tc	621.26	K	Joback Method
tf	229.86	K	Joback Method
vc	0.507	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	286.50	J/mol×K	432.34	Joback Method
cpg	370.17	J/mol×K	589.77	Joback Method
cpg	355.24	J/mol×K	558.29	Joback Method
cpg	339.46	J/mol×K	526.80	Joback Method
cpg	322.77	J/mol×K	495.31	Joback Method
cpg	305.13	J/mol×K	463.83	Joback Method
cpg	384.30	J/mol×K	621.26	Joback Method

dvisc	0.0006510	Pa×s	432.34	Joback Method
dvisc	0.0006169	Pa×s	398.59	Joback Method
dvisc	0.0005787	Pa×s	364.85	Joback Method
dvisc	0.0005359	Pa×s	331.10	Joback Method
dvisc	0.0004877	Pa×s	297.35	Joback Method
dvisc	0.0004332	Pa×s	263.61	Joback Method
dvisc	0.0003717	Pa×s	229.86	Joback Method

Sources

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=R137589&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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