1-Methoxy-5-methyl-3-methylenecyclohexene

Inchi: InChI=1S/C9H14O/c1-7-4-8(2)6-9(5-7)10-3/h5,8H,1,4,6H2,2-3H3
InchiKey: UCGJGGYPYPCYCO-UHFFFAOYSA-N
Formula: C9H14O
SMILES: C=C1C=C(OC)CC(C)C1
Mol. weight [g/mol]: 138.21
CAS: 69697-81-0

Physical Properties

Property code	Value	Unit	Source
hfus	11.76	kJ/mol	Joback Method
logp	2.503		Crippen Method
mcvol	124.080	ml/mol	McGowan Method

Correlations

Information	Value
Property code	cpg
Equation	$Y = A + B \cdot T + C \cdot T^2 + D \cdot T^3 + E \cdot T.$
Y unit	J/mol×K
Coeff. A	-1.03000e+00
Coeff. B	6.84740e-01
Coeff. C	-2.63640e-04
Coeff. D	9.00000e-10
Coeff. E	0.00000e+00
Basis	predicted
Temperature range (K), min.	273.00
Temperature range (K), max.	1000.00

Information	Value
Property code	dvisc
Equation	Y = exp(A + B/T + C·ln(T) + D·T^E)
Y unit	Pa×s
Coeff. A	-1.08592e+01

Coeff. B	1.10480e+03
Coeff. C	0.00000e+00
Coeff. D	0.00000e+00
Coeff. E	0.00000e+00
Basis	predicted
Comment	Liquid phase. Joback/Reid (1987), valid from Tf to 0.7·Tc.
Temperature range (K), min.	247.76
Temperature range (K), max.	457.84

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C69697810&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hfus:	Enthalpy of fusion at standard conditions
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume

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