CYCLOPENTENE, 3-METHOXY-

Inchi: InChI=1S/C6H10O/c1-7-6-4-2-3-5-6/h2,4,6H,3,5H2,1H3
InchiKey: PUNAFIBTAHETMN-UHFFFAOYSA-N
Formula: C6H10O
SMILES: COC1C=CCC1
Mol. weight [g/mol]: 98.14

Physical Properties

Property code	Value	Unit	Source
af	0.2556		Cheméo Relay (1.0)
hf	-109.81	kJ/mol	Cheméo Relay (1.0)
hfus	7.64	kJ/mol	Joback Method
hvap	37.58	kJ/mol	Cheméo Relay (1.0)
ie	9.45 ± 0.05	eV	NIST Webbook
logp	1.351		Crippen Method
mcvol	86.110	ml/mol	McGowan Method
pc	3930.78	kPa	Joback Method
tb	376.74	K	Cheméo Relay (1.0)
tc	554.53	K	Cheméo Relay (1.0)
tf	157.36	K	Cheméo Relay (1.0)
vc	0.304	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	149.07	J/mol×K	373.54	Joback Method
cpg	214.25	J/mol×K	570.82	Joback Method
cpg	204.65	J/mol×K	537.94	Joback Method
cpg	194.55	J/mol×K	505.06	Joback Method
cpg	183.96	J/mol×K	472.18	Joback Method
cpg	172.86	J/mol×K	439.30	Joback Method
cpg	161.23	J/mol×K	406.42	Joback Method
dvisc	0.0005045	Pa×s	282.40	Joback Method
dvisc	0.0002500	Pa×s	373.54	Joback Method
dvisc	0.0003031	Pa×s	343.16	Joback Method

dvisc	0.0003815	Pa×s	312.78	Joback Method
dvisc	0.0019874	Pa×s	191.27	Joback Method
dvisc	0.0007136	Pa×s	252.03	Joback Method
dvisc	0.0011102	Pa×s	221.65	Joback Method

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C39819744&Units=SI

Joback Method: https://en.wikipedia.org/wiki/Joback_method

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

Legend

af: Acentric Factor
cpg: Ideal gas heat capacity
dvisc: Dynamic viscosity
hf: Enthalpy of formation at standard conditions
hfus: Enthalpy of fusion at standard conditions
hvap: Enthalpy of vaporization at standard conditions
ie: Ionization energy
logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume
pc: Critical Pressure
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume