Tricyclo[3.2.1.02,4]octane,8,8-dimethoxy-,(1«alpha

Inchi: InChI=1S/C10H16O2/c1-11-10(12-2)8-3-4-9(10)7-5-6(7)8/h6-9H,3-5H2,1-2H3/t6-,7+,8-,9

InchiKey: GKTKVXRMUZJCBV-KZVJFYERSA-N

Formula: C10H16O2

SMILES: COC1(OC)C2CCC1C1CC12

Mol. weight [g/mol]: 168.23

CAS: 7076-82-6

Physical Properties

Property code	Value	Unit	Source
gf	-3.24	kJ/mol	Joback Method
hf	-315.05	kJ/mol	Joback Method
hfus	16.38	kJ/mol	Joback Method
hvap	40.47	kJ/mol	Joback Method
ie	8.90 ± 0.10	eV	NIST Webbook
log10ws	-1.51		Crippen Method
logp	1.651		Crippen Method
mcvol	130.920	ml/mol	McGowan Method
pc	2865.80	kPa	Joback Method
tb	479.89	K	Joback Method
tc	682.86	K	Joback Method
tf	319.68	K	Joback Method
vc	0.506	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	328.76	J/mol×K	479.89	Joback Method
cpg	346.73	J/mol×K	513.72	Joback Method
cpg	363.43	J/mol×K	547.55	Joback Method
cpg	379.01	J/mol×K	581.37	Joback Method
cpg	393.58	J/mol×K	615.20	Joback Method
cpg	407.28	J/mol×K	649.03	Joback Method
cpg	420.25	J/mol×K	682.86	Joback Method

Sources

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=C7076826&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
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
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
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