Benzene, 2-ethoxy-1,3-dimethoxy-

Other names:	2-Ethoxy-1,3-dimethoxybenzene
	Ethylsyringol
	2,6-Dimethoxyphenetole
Inchi:	InChI=1S/C10H14O3/c1-4-13-10-8(11-2)6-5-7-9(10)12-3/h5-7H,4H2,1-3H3
InchiKey:	COPJTXDDUKMXHR-UHFFFAOYSA-N
Formula:	C10H14O3
SMILES:	CCOc1c(OC)cccc1OC
Mol. weight [g/mol]:	182.22
CAS:	29515-37-5

Physical Properties

Property code	Value	Unit	Source
gf	-188.53	kJ/mol	Joback Method
hf	-432.80	kJ/mol	Joback Method
hfus	18.48	kJ/mol	Joback Method
hvap	48.68	kJ/mol	Joback Method
log10ws	-2.25		Crippen Method
logp	2.103		Crippen Method
mcvol	145.610	ml/mol	McGowan Method
pc	2690.21	kPa	Joback Method
rinpol	1533.00		NIST Webbook
rinpol	1533.70		NIST Webbook
tb	532.10	K	Joback Method
tc	734.18	K	Joback Method
tf	320.61	K	Joback Method
vc	0.541	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	330.29	J/mol×K	532.10	Joback Method
cpg	343.78	J/mol×K	565.78	Joback Method
cpg	356.77	J/mol×K	599.46	Joback Method
cpg	369.24	J/mol×K	633.14	Joback Method

cpg	381.17	J/mol×K	666.82	Joback Method
cpg	392.54	J/mol×K	700.50	Joback Method
cpg	403.34	J/mol×K	734.18	Joback Method
dvisc	0.0008685	Pa×s	320.61	Joback Method
dvisc	0.0005382	Pa×s	355.86	Joback Method
dvisc	0.0003635	Pa×s	391.11	Joback Method
dvisc	0.0002620	Pa×s	426.36	Joback Method
dvisc	0.0001985	Pa×s	461.60	Joback Method
dvisc	0.0001565	Pa×s	496.85	Joback Method
dvisc	0.0001273	Pa×s	532.10	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C29515375&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method: https://en.wikipedia.org/wiki/Joback_method

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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