Phenol, 4-(1-propenyl)-2,6-dimethoxy

Other names: 2,6-Dimethoxy-4-propenyl phenol
2,6-dimethoxy-4-(1-propenyl)phenol
4-(1-Propenyl)-2,6-dimethoxyphenol
Inchi: InChI=1S/C11H14O3/c1-4-5-8-6-9(13-2)11(12)10(7-8)14-3/h4-7,12H,1-3H3/b5-4+
InchiKey: YFHOHYAUMDHSBX-SNAWJCMRSA-N
Formula: C11H14O3
SMILES: CC=Cc1cc(OC)c(O)c(OC)c1
Mol. weight [g/mol]: 194.23
CAS: 6635-22-9

Physical Properties

Property code	Value	Unit	Source
gf	-149.51	kJ/mol	Joback Method
hf	-381.31	kJ/mol	Joback Method
hfus	25.87	kJ/mol	Joback Method
hvap	61.47	kJ/mol	Joback Method
log10ws	-2.50		Crippen Method
logp	2.442		Crippen Method
mcvol	155.400	ml/mol	McGowan Method
pc	3065.95	kPa	Joback Method
ripol	2758.00		NIST Webbook
ripol	2758.00		NIST Webbook
tb	617.34	K	Joback Method
tc	838.09	K	Joback Method
tf	416.29	K	Joback Method
vc	0.525	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	384.89	J/mol×K	617.34	Joback Method
cpg	442.79	J/mol×K	801.30	Joback Method
cpg	432.43	J/mol×K	764.51	Joback Method
cpg	421.52	J/mol×K	727.71	Joback Method

cpg	409.99	J/mol×K	690.92	Joback Method
cpg	397.79	J/mol×K	654.13	Joback Method
cpg	452.62	J/mol×K	838.09	Joback Method
dvisc	0.0000181	Pa×s	617.34	Joback Method
dvisc	0.0000263	Pa×s	583.83	Joback Method
dvisc	0.0000399	Pa×s	550.32	Joback Method
dvisc	0.0000640	Pa×s	516.82	Joback Method
dvisc	0.0001096	Pa×s	483.31	Joback Method
dvisc	0.0002034	Pa×s	449.80	Joback Method
dvisc	0.0004170	Pa×s	416.29	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=C6635229&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
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
ripol: Polar retention indices
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume

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