Phenol, 2-methoxy-4-propyl-

Other names:	(4-Hydroxy-3-methoxyphenyl)propane
	p-Propylguaiacol
	Cerulignol
	Coerulignol
	Dihydroeugenol
	Guaiacylpropane
	1-(4-Hydroxy-3-methoxyphenyl)propane
	2-Methoxy-4-propylphenol
	4-Hydroxy-3-methoxypropylbenzene
	4-Propyl-2-methoxyphenol
	4-Propylguaiacol
	2-Methoxy-4-n-propylphenol
	p-n-Propylguaiacol
	1-Propyl-3-methoxy-4-hydroxybenzene
	2-Methoxy-4-(1-propyl)phenol
	Eugenol dihydro
	Phenol, 4-propyl, 2-methoxy
	1-(3-Methoxy-4-hydroxyphenyl)propane
	Guaiacol, 4-propyl-
	NSC 53043
	4-Propyl-2-methoxyphenol (4-propylguaiacol)
	Propyl guaiacol
	2-Methoxy-4-propylphenol (p-propylguaiacol)
Inchi:	InChI=1S/C10H14O2/c1-3-4-8-5-6-9(11)10(7-8)12-2/h5-7,11H,3-4H2,1-2H3
InchiKey:	PXIKRTCSSLJURC-UHFFFAOYSA-N
Formula:	C10H14O2
SMILES:	CCCc1ccc(O)c(OC)c1
Mol. weight [g/mol]:	166.22
CAS:	2785-87-7

Physical Properties

Property code	Value	Unit	Source
gf	-123.52	kJ/mol	Joback Method
hf	-334.20	kJ/mol	Joback Method
hfus	22.28	kJ/mol	Joback Method
hvap	56.22	kJ/mol	Joback Method

log10ws	-2.36		Crippen Method
logp	2.353		Crippen Method
mcvol	139.740	ml/mol	McGowan Method
pc	3341.24	kPa	Joback Method
rinpol	1392.00		NIST Webbook
rinpol	1382.00		NIST Webbook
rinpol	1375.40		NIST Webbook
rinpol	1376.30		NIST Webbook
rinpol	1356.00		NIST Webbook
rinpol	1373.00		NIST Webbook
rinpol	1374.00		NIST Webbook
rinpol	1337.00		NIST Webbook
rinpol	1344.00		NIST Webbook
rinpol	1382.00		NIST Webbook
rinpol	1334.00		NIST Webbook
rinpol	1365.00		NIST Webbook
rinpol	1374.00		NIST Webbook
rinpol	1373.00		NIST Webbook
rinpol	1406.00		NIST Webbook
rinpol	1352.00		NIST Webbook
rinpol	1373.00		NIST Webbook
rinpol	1371.00		NIST Webbook
rinpol	1392.00		NIST Webbook
rinpol	1392.00		NIST Webbook
rinpol	1357.00		NIST Webbook
rinpol	1365.00		NIST Webbook
rinpol	1373.00		NIST Webbook
rinpol	1345.00		NIST Webbook
rinpol	1345.00		NIST Webbook
rinpol	1352.00		NIST Webbook
rinpol	1357.00		NIST Webbook
ripol	2103.00		NIST Webbook
ripol	2084.00		NIST Webbook
ripol	2081.00		NIST Webbook
ripol	2103.00		NIST Webbook
ripol	2099.00		NIST Webbook
ripol	2139.00		NIST Webbook
ripol	2113.00		NIST Webbook
ripol	2142.00		NIST Webbook
ripol	2146.00		NIST Webbook
ripol	2134.00		NIST Webbook
ripol	2103.00		NIST Webbook
ripol	2117.00		NIST Webbook
ripol	2103.00		NIST Webbook

ripol	2115.00		NIST Webbook
ripol	2083.00		NIST Webbook
ripol	2091.00		NIST Webbook
ripol	2139.00		NIST Webbook
ripol	2103.00		NIST Webbook
ripol	2091.00		NIST Webbook
ripol	2090.00		NIST Webbook
tb	562.90	K	Joback Method
tc	779.84	K	Joback Method
tf	289.15 ± 2.00	K	NIST Webbook
vc	0.471	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	335.00	J/mol×K	562.90	Joback Method
cpg	348.17	J/mol×K	599.06	Joback Method
cpg	360.57	J/mol×K	635.21	Joback Method
cpg	372.26	J/mol×K	671.37	Joback Method
cpg	383.28	J/mol×K	707.52	Joback Method
cpg	393.69	J/mol×K	743.68	Joback Method
cpg	403.54	J/mol×K	779.84	Joback Method
dvisc	0.0012473	Pa×s	375.35	Joback Method
dvisc	0.0005647	Pa×s	406.61	Joback Method
dvisc	0.0002863	Pa×s	437.87	Joback Method
dvisc	0.0001589	Pa×s	469.12	Joback Method
dvisc	0.0000949	Pa×s	500.38	Joback Method
dvisc	0.0000602	Pa×s	531.64	Joback Method
dvisc	0.0000402	Pa×s	562.90	Joback Method
hvapt	78.00	kJ/mol	393.00	NIST Webbook

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	402.00 ± 1.00	K	2.00	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2785877&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
hvapt:	Enthalpy of vaporization at a given temperature
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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume