

Phenol, 2-methyl-6-(2-propenyl)-

Other names:	6-Allyl-o-cresol 6-Allyl-2-cresol 2-Allyl-6-methylphenol 6-Allyl-2-methylphenol o-Cresol, 6-allyl- 2-Methyl-6-(2-propenyl)phenol
Inchi:	InChI=1S/C10H12O/c1-3-5-9-7-4-6-8(2)10(9)11/h3-4,6-7,11H,1,5H2,2H3
InchiKey:	WREVCRYZAWNLRZ-UHFFFAOYSA-N
Formula:	C10H12O
SMILES:	C=CCc1cccc(C)c1O
Mol. weight [g/mol]:	148.20
CAS:	3354-58-3

Physical Properties

Property code	Value	Unit	Source
gf	69.32	kJ/mol	Joback Method
hf	-76.55	kJ/mol	Joback Method
hfus	19.81	kJ/mol	Joback Method
hvap	53.14	kJ/mol	Joback Method
log10ws	-2.57		Crippen Method
logp	2.429		Crippen Method
mcvol	129.570	ml/mol	McGowan Method
pc	3581.35	kPa	Joback Method
tb	505.20	K	NIST Webbook
tc	761.51	K	Joback Method
tf	351.36	K	Joback Method
vc	0.434	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	292.39	J/mol×K	537.16	Joback Method
cpg	305.14	J/mol×K	574.55	Joback Method
cpg	317.01	J/mol×K	611.94	Joback Method

cpg	328.08	J/molxK	649.34	Joback Method
cpg	338.41	J/molxK	686.73	Joback Method
cpg	348.11	J/molxK	724.12	Joback Method
cpg	357.24	J/molxK	761.51	Joback Method
dvisc	0.0022258	Paxs	351.36	Joback Method
dvisc	0.0009526	Paxs	382.33	Joback Method
dvisc	0.0004629	Paxs	413.29	Joback Method
dvisc	0.0002488	Paxs	444.26	Joback Method
dvisc	0.0001450	Paxs	475.23	Joback Method
dvisc	0.0000903	Paxs	506.19	Joback Method
dvisc	0.0000593	Paxs	537.16	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C3354583&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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