

Phenol, 6-methyl-2-methoxy-3-(1-methylethyl)

Inchi:	InChI=1S/C11H16O2/c1-7(2)9-6-5-8(3)10(12)11(9)13-4/h5-7,12H,1-4H3
InchiKey:	PVEFRHUZPGCJIK-UHFFFAOYSA-N
Formula:	C11H16O2
SMILES:	COc1c(C(C)C)ccc(C)c1O
Mol. weight [g/mol]:	180.24

Physical Properties

Property code	Value	Unit	Source
gf	-127.17	kJ/mol	Joback Method
hf	-371.59	kJ/mol	Joback Method
hfus	20.96	kJ/mol	Joback Method
hvap	58.72	kJ/mol	Joback Method
log10ws	-2.80		Crippen Method
logp	2.833		Crippen Method
mcvol	153.830	ml/mol	McGowan Method
pc	2976.29	kPa	Joback Method
ripol	2410.00		NIST Webbook
ripol	2410.00		NIST Webbook
tb	590.32	K	Joback Method
tc	809.10	K	Joback Method
tf	384.14	K	Joback Method
vc	0.521	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	381.74	J/molxK	590.32	Joback Method
cpg	444.75	J/molxK	772.63	Joback Method
cpg	433.52	J/molxK	736.17	Joback Method
cpg	421.65	J/molxK	699.71	Joback Method
cpg	409.10	J/molxK	663.25	Joback Method
cpg	395.81	J/molxK	626.78	Joback Method
cpg	455.41	J/molxK	809.10	Joback Method
dvisc	0.0000286	Paxs	590.32	Joback Method

dvisc	0.0000433	Paxs	555.96	Joback Method
dvisc	0.0000691	Paxs	521.59	Joback Method
dvisc	0.0001179	Paxs	487.23	Joback Method
dvisc	0.0002180	Paxs	452.87	Joback Method
dvisc	0.0004462	Paxs	418.50	Joback Method
dvisc	0.0010379	Paxs	384.14	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R238563&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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

Latest version available from:

<https://www.chemeo.com/cid/86-344-5/Phenol-6-methyl-2-methoxy-3-1-methylethyl.pdf>

Generated by Cheméo on 2026-04-23 03:48:35.182304262 +0000 UTC m=+681464.240386484.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.