

Phenol-d6-

Other names:	(2H6)phenol
Inchi:	InChI=1S/C6H6O/c7-6-4-2-1-3-5-6/h1-5,7H/i1D,2D,3D,4D,5D/hD
InchiKey:	ISWSIDIOOBJBQZ-QNKSCLMFSA-N
Formula:	C6D6O
SMILES:	Oc1ccccc1
Mol. weight [g/mol]:	100.15
CAS:	13127-88-3

Physical Properties

Property code	Value	Unit	Source
gf	-32.94	kJ/mol	Joback Method
hf	-96.48	kJ/mol	Joback Method
hfus	11.51	kJ/mol	Joback Method
hvap	43.58	kJ/mol	Joback Method
log10ws	-1.02		Crippen Method
logp	1.392		Crippen Method
mcvol	77.510	ml/mol	McGowan Method
pc	5926.27	kPa	Joback Method
tb	439.00	K	Joback Method
tc	671.01	K	Joback Method
tf	283.00	K	Joback Method
vc	0.230	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	145.52	J/molxK	439.00	Joback Method
cpg	187.47	J/molxK	632.34	Joback Method
cpg	180.59	J/molxK	593.67	Joback Method
cpg	173.03	J/molxK	555.01	Joback Method
cpg	164.73	J/molxK	516.34	Joback Method
cpg	155.59	J/molxK	477.67	Joback Method
cpg	193.78	J/molxK	671.01	Joback Method
dvisc	0.0001736	Paxs	439.00	Joback Method

dvisc	0.0002857	Paxs	413.00	Joback Method
dvisc	0.0005026	Paxs	387.00	Joback Method
dvisc	0.0009592	Paxs	361.00	Joback Method
dvisc	0.0020238	Paxs	335.00	Joback Method
dvisc	0.0048418	Paxs	309.00	Joback Method
dvisc	0.0135969	Paxs	283.00	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C13127883&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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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