

Benzene, 1-(chloromethyl)-3-phenoxy-

Other names:	1-(chloromethyl)-3-phenoxybenzene
Inchi:	InChI=1S/C13H11ClO/c14-10-11-5-4-8-13(9-11)15-12-6-2-1-3-7-12/h1-9H,10H2
InchiKey:	QUYVTGFWFHQVRO-UHFFFAOYSA-N
Formula:	C13H11ClO
SMILES:	ClCc1cccc(Oc2ccccc2)c1
Mol. weight [g/mol]:	218.68
CAS:	53874-66-1

Physical Properties

Property code	Value	Unit	Source
gf	156.84	kJ/mol	Joback Method
hf	1.98	kJ/mol	Joback Method
hfus	22.50	kJ/mol	Joback Method
hvap	56.54	kJ/mol	Joback Method
log10ws	-4.14		Crippen Method
logp	4.218		Crippen Method
mcvol	164.620	ml/mol	McGowan Method
pc	2850.52	kPa	Joback Method
tb	615.03	K	Joback Method
tc	860.59	K	Joback Method
tf	353.78	K	Joback Method
vc	0.615	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	375.84	J/mol×K	615.03	Joback Method
cpg	440.03	J/mol×K	819.66	Joback Method
cpg	429.30	J/mol×K	778.74	Joback Method
cpg	417.56	J/mol×K	737.81	Joback Method
cpg	404.77	J/mol×K	696.88	Joback Method
cpg	390.88	J/mol×K	655.96	Joback Method
cpg	449.81	J/mol×K	860.59	Joback Method
dvisc	0.0001510	Paxs	615.03	Joback Method

dvisc	0.0001898	Paxs	571.49	Joback Method
dvisc	0.0002476	Paxs	527.95	Joback Method
dvisc	0.0003390	Paxs	484.40	Joback Method
dvisc	0.0004936	Paxs	440.86	Joback Method
dvisc	0.0007805	Paxs	397.32	Joback Method
dvisc	0.0013816	Paxs	353.78	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=C53874661&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀w_s:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mc_{vol}:	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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