

4-Phenoxybenzaldehyde

Other names:	p-Phenoxybenzaldehyde Benzaldehyde, 4-phenoxy- Benzaldehyde, p-phenoxy-
Inchi:	InChI=1S/C13H10O2/c14-10-11-6-8-13(9-7-11)15-12-4-2-1-3-5-12/h1-10H
InchiKey:	QWLHJVDRPZNVBS-UHFFFAOYSA-N
Formula:	C13H10O2
SMILES:	O=Cc1ccc(Oc2ccccc2)cc1
Mol. weight [g/mol]:	198.22
CAS:	67-36-7

Physical Properties

Property code	Value	Unit	Source
gf	69.25	kJ/mol	Joback Method
hf	-67.86	kJ/mol	Joback Method
hfus	20.60	kJ/mol	Joback Method
hvap	58.88	kJ/mol	Joback Method
log10ws	-3.35		Crippen Method
logp	3.291		Crippen Method
mcvol	153.950	ml/mol	McGowan Method
pc	3220.98	kPa	Joback Method
rinpol	294.90		NIST Webbook
tb	626.26	K	Joback Method
tc	869.78	K	Joback Method
tf	365.86	K	Joback Method
vc	0.583	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	366.39	J/mol×K	626.26	Joback Method
cpg	426.63	J/mol×K	829.19	Joback Method
cpg	416.61	J/mol×K	788.61	Joback Method
cpg	405.62	J/mol×K	748.02	Joback Method
cpg	393.62	J/mol×K	707.43	Joback Method

cpg	380.55	J/mol×K	666.85	Joback Method
cpg	435.72	J/mol×K	869.78	Joback Method
dvisc	0.0001812	Pa×s	626.26	Joback Method
dvisc	0.0002262	Pa×s	582.86	Joback Method
dvisc	0.0002926	Pa×s	539.46	Joback Method
dvisc	0.0003959	Pa×s	496.06	Joback Method
dvisc	0.0005677	Pa×s	452.66	Joback Method
dvisc	0.0008787	Pa×s	409.26	Joback Method
dvisc	0.0015087	Pa×s	365.86	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	458.20	K	1.90	NIST Webbook

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C67367&Units=SI

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

rinpol:	Non-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

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