Phenol, 4-bromo-, acetate

Other names:	Phenol, p-bromo-, acetate
	p-Acetoxybromobenzene
	p-Bromophenyl acetate
	Acetic acid, 4-bromophenyl ester
	4-bromophenyl acetate
Inchi:	InChI=1S/C8H7BrO2/c1-6(10)11-8-4-2-7(9)3-5-8/h2-5H,1H3
InchiKey:	XEXHCQJRVMVJMY-UHFFFAOYSA-N
Formula:	C8H7BrO2
SMILES:	CC(=O)Oc1ccc(Br)cc1
Mol. weight [g/mol]:	215.04
CAS:	1927-95-3

Physical Properties

Property code	Value	Unit	Source
gf	-100.34	kJ/mol	Joback Method
hf	-201.86	kJ/mol	Joback Method
hfus	18.20	kJ/mol	Joback Method
hvap	51.93	kJ/mol	Joback Method
ie	8.60 ± 0.20	eV	NIST Webbook
ie	8.42 ± 0.03	eV	NIST Webbook
log10ws	-2.95		Crippen Method
logp	2.374		Crippen Method
mcvol	124.760	ml/mol	McGowan Method
pc	4135.61	kPa	Joback Method
tb	556.55	K	Joback Method
tc	792.86	K	Joback Method
tf	350.82	K	Joback Method
vc	0.462	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	246.83	J/mol×K	556.55	Joback Method
cpg	257.12	J/mol×K	595.93	Joback Method

cpg	266.74	J/mol×K	635.32	Joback Method
cpg	275.70	J/mol×K	674.70	Joback Method
cpg	284.02	J/mol×K	714.09	Joback Method
cpg	291.72	J/mol×K	753.47	Joback Method
cpg	298.81	J/mol×K	792.86	Joback Method
dvisc	0.0015564	Pa×s	350.82	Joback Method
dvisc	0.0010113	Pa×s	385.11	Joback Method
dvisc	0.0007051	Pa×s	419.40	Joback Method
dvisc	0.0005191	Pa×s	453.69	Joback Method
dvisc	0.0003990	Pa×s	487.97	Joback Method
dvisc	0.0003175	Pa×s	522.26	Joback Method
dvisc	0.0002598	Pa×s	556.55	Joback Method

Sources

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=C1927953&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
ie:	Ionization energy
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