Ethanol, 2-(4-bromophenoxy)-

Other names:	«beta»-(p-Bromophenoxy)ethanol
	2-(p-Bromophenoxy)ethanol
	2-(4-Bromophenoxy)ethanol
	2-(4'-Bromophenoxy)ethanol
Inchi:	InChI=1S/C8H9BrO2/c9-7-1-3-8(4-2-7)11-6-5-10/h1-4,10H,5-6H2
InchiKey:	QYIOGYCRGNHDNK-UHFFFAOYSA-N
Formula:	C8H9BrO2
SMILES:	OCCOc1ccc(Br)cc1
Mol. weight [g/mol]:	217.06
CAS:	34743-88-9

Physical Properties

Property code	Value	Unit	Source
gf	-108.24	kJ/mol	Joback Method
hf	-241.51	kJ/mol	Joback Method
hfus	20.69	kJ/mol	Joback Method
hvap	61.86	kJ/mol	Joback Method
log10ws	-2.44		Crippen Method
logp	1.820		Crippen Method
mcvol	129.060	ml/mol	McGowan Method
pc	4294.29	kPa	Joback Method
tb	594.86	K	Joback Method
tc	805.05	K	Joback Method
tf	361.71	K	Joback Method
vc	0.474	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	278.25	J/mol×K	594.86	Joback Method
cpg	287.66	J/mol×K	629.89	Joback Method
cpg	296.51	J/mol×K	664.92	Joback Method
cpg	304.82	J/mol×K	699.96	Joback Method
cpg	312.62	J/mol×K	734.99	Joback Method

cpg	319.92	J/mol×K	770.02	Joback Method
cpg	326.73	J/mol×K	805.05	Joback Method
dvisc	0.0027002	Pa×s	361.71	Joback Method
dvisc	0.0011532	Pa×s	400.57	Joback Method
dvisc	0.0005725	Pa×s	439.43	Joback Method
dvisc	0.0003184	Pa×s	478.28	Joback Method
dvisc	0.0001935	Pa×s	517.14	Joback Method
dvisc	0.0001260	Pa×s	556.00	Joback Method
dvisc	0.0000868	Pa×s	594.86	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	457.20	K	2.70	NIST Webbook

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=C34743889&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume