

p-Bromophenyl butyl ether

Inchi:	InChI=1S/C10H13BrO/c1-2-3-8-12-10-6-4-9(11)5-7-10/h4-7H,2-3,8H2,1H3
InchiKey:	BOUVKHWPNEXTO-UHFFFAOYSA-N
Formula:	C10H13BrO
SMILES:	CCCCOc1ccc(Br)cc1
Mol. weight [g/mol]:	229.11
CAS:	39969-57-8

Physical Properties

Property code	Value	Unit	Source
gf	45.42	kJ/mol	Joback Method
hf	-130.56	kJ/mol	Joback Method
hfus	21.78	kJ/mol	Joback Method
hvap	49.64	kJ/mol	Joback Method
log10ws	-4.01		Crippen Method
logp	3.628		Crippen Method
mcvol	151.370	ml/mol	McGowan Method
pc	3052.41	kPa	Joback Method
tb	548.44	K	Joback Method
tc	767.82	K	Joback Method
tf	323.43	K	Joback Method
vc	0.568	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	322.07	J/mol×K	548.44	Joback Method
cpg	335.63	J/mol×K	585.00	Joback Method
cpg	348.41	J/mol×K	621.57	Joback Method
cpg	360.44	J/mol×K	658.13	Joback Method
cpg	371.74	J/mol×K	694.70	Joback Method
cpg	382.35	J/mol×K	731.26	Joback Method
cpg	392.28	J/mol×K	767.82	Joback Method
dvisc	0.0016322	Pa×s	323.43	Joback Method
dvisc	0.0009634	Pa×s	360.93	Joback Method

dvisc	0.0006280	Pa×s	398.43	Joback Method
dvisc	0.0004406	Pa×s	435.94	Joback Method
dvisc	0.0003270	Pa×s	473.44	Joback Method
dvisc	0.0002536	Pa×s	510.94	Joback Method
dvisc	0.0002036	Pa×s	548.44	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	419.50 ± 1.50	K	6.70	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C39969578&Units=SI
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

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

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