

# p-Bromophenyl octyl ether

<b>Inchi:</b>	InChI=1S/C14H21BrO/c1-2-3-4-5-6-7-12-16-14-10-8-13(15)9-11-14/h8-11H,2-7,12H2,1H
<b>InchiKey:</b>	UVBFFPZGOOKWNR-UHFFFAOYSA-N
<b>Formula:</b>	C14H21BrO
<b>SMILES:</b>	CCCCCCCCOc1ccc(Br)cc1
<b>Mol. weight [g/mol]:</b>	285.22
<b>CAS:</b>	96693-05-9

## Physical Properties

Property code	Value	Unit	Source
gf	79.10	kJ/mol	Joback Method
hf	-213.12	kJ/mol	Joback Method
hfus	32.14	kJ/mol	Joback Method
hvap	58.54	kJ/mol	Joback Method
log10ws	-5.68		Crippen Method
logp	5.188		Crippen Method
mcvol	207.730	ml/mol	McGowan Method
pc	2077.43	kPa	Joback Method
tb	639.96	K	Joback Method
tc	845.42	K	Joback Method
tf	368.51	K	Joback Method
vc	0.791	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	517.46	J/molxK	639.96	Joback Method
cpg	533.74	J/molxK	674.20	Joback Method
cpg	549.10	J/molxK	708.45	Joback Method
cpg	563.58	J/molxK	742.69	Joback Method
cpg	577.22	J/molxK	776.93	Joback Method
cpg	590.04	J/molxK	811.17	Joback Method
cpg	602.09	J/molxK	845.42	Joback Method
dvisc	0.0013694	Paxs	368.51	Joback Method
dvisc	0.0007525	Paxs	413.75	Joback Method

dvisc	0.0004653	Paxs	458.99	Joback Method
dvisc	0.0003137	Paxs	504.24	Joback Method
dvisc	0.0002256	Paxs	549.48	Joback Method
dvisc	0.0001706	Paxs	594.72	Joback Method
dvisc	0.0001342	Paxs	639.96	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	409.00 ± 1.00	K	0.07	NIST Webbook

## Sources

<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C96693059&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C96693059&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point

**vc:** Critical Volume

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