

# 4-Bromobutyric acid, 2-naphthyl ester

<b>Inchi:</b>	InChI=1S/C14H13BrO2/c15-9-3-6-14(16)17-13-8-7-11-4-1-2-5-12(11)10-13/h1-2,4-5,7-8,
<b>InchiKey:</b>	WROMMFRWIWBKCJ-UHFFFAOYSA-N
<b>Formula:</b>	C14H13BrO2
<b>SMILES:</b>	O=C(CCCBr)Oc1ccc2ccccc2c1
<b>Mol. weight [g/mol]:</b>	293.16

## Physical Properties

Property code	Value	Unit	Source
gf	56.83	kJ/mol	Joback Method
hf	-134.63	kJ/mol	Joback Method
hfus	30.76	kJ/mol	Joback Method
hvap	66.93	kJ/mol	Joback Method
log10ws	-4.86		Crippen Method
logp	3.920		Crippen Method
mcvol	189.840	ml/mol	McGowan Method
pc	2811.36	kPa	Joback Method
rinpol	2156.00		NIST Webbook
rinpol	2156.00		NIST Webbook
tb	712.81	K	Joback Method
tc	949.71	K	Joback Method
tf	451.14	K	Joback Method
vc	0.720	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	470.43	J/molxK	712.81	Joback Method
cpg	483.43	J/molxK	752.29	Joback Method
cpg	495.46	J/molxK	791.78	Joback Method
cpg	506.59	J/molxK	831.26	Joback Method
cpg	516.90	J/molxK	870.75	Joback Method
cpg	526.46	J/molxK	910.23	Joback Method
cpg	535.36	J/molxK	949.71	Joback Method
dvisc	0.0012166	Paxs	451.14	Joback Method

dvisc	0.0008285	Paxs	494.75	Joback Method
dvisc	0.0006004	Paxs	538.36	Joback Method
dvisc	0.0004567	Paxs	581.98	Joback Method
dvisc	0.0003608	Paxs	625.59	Joback Method
dvisc	0.0002940	Paxs	669.20	Joback Method
dvisc	0.0002456	Paxs	712.81	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U307613&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307613&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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