

# Ethyl «alpha»-bromoheptanoate

<b>Other names:</b>	Heptanoic acid, 2-bromo-, ethyl ester ethyl 2-bromoheptanoate
<b>Inchi:</b>	InChI=1S/C9H17BrO2/c1-3-5-6-7-8(10)9(11)12-4-2/h8H,3-7H2,1-2H3
<b>InchiKey:</b>	GNCLPIAYAPQPOU-UHFFFAOYSA-N
<b>Formula:</b>	C9H17BrO2
<b>SMILES:</b>	CCCCC(Br)C(=O)OCC
<b>Mol. weight [g/mol]:</b>	237.13
<b>CAS:</b>	5333-88-0

## Physical Properties

Property code	Value	Unit	Source
gf	-197.14	kJ/mol	Joback Method
hf	-452.84	kJ/mol	Joback Method
hfus	23.62	kJ/mol	Joback Method
hvap	50.83	kJ/mol	Joback Method
log10ws	-3.00		Crippen Method
logp	2.893		Crippen Method
mcvol	162.610	ml/mol	McGowan Method
pc	2605.74	kPa	Joback Method
rinp1	1282.00		NIST Webbook
rinp2	1382.00		NIST Webbook
tb	547.33	K	Joback Method
tc	738.62	K	Joback Method
tf	308.15	K	Joback Method
vc	0.620	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	366.10	J/molxK	547.33	Joback Method
cpg	425.81	J/molxK	706.74	Joback Method
cpg	415.02	J/molxK	674.86	Joback Method
cpg	403.67	J/molxK	642.98	Joback Method
cpg	391.74	J/molxK	611.09	Joback Method

cpg	379.22	J/molxK	579.21	Joback Method
cpg	436.04	J/molxK	738.62	Joback Method
dvisc	0.0002304	Paxs	547.33	Joback Method
dvisc	0.0003004	Paxs	507.47	Joback Method
dvisc	0.0004099	Paxs	467.60	Joback Method
dvisc	0.0005925	Paxs	427.74	Joback Method
dvisc	0.0009238	Paxs	387.88	Joback Method
dvisc	0.0015948	Paxs	348.01	Joback Method
dvisc	0.0031707	Paxs	308.15	Joback Method

## 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=C5333880&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5333880&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>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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