

# Nonanoic acid, 2-bromoethyl ester

<b>Other names:</b>	ethyl 2-bromononan-1-oate
<b>Inchi:</b>	InChI=1S/C11H21BrO2/c1-3-5-6-7-8-9-10(12)11(13)14-4-2/h10H,3-9H2,1-2H3
<b>InchiKey:</b>	QARKIRQNOLQDFJ-UHFFFAOYSA-N
<b>Formula:</b>	C11H21BrO2
<b>SMILES:</b>	CCCCCCCC(Br)C(=O)OCC
<b>Mol. weight [g/mol]:</b>	265.19
<b>CAS:</b>	7425-60-7

## Physical Properties

Property code	Value	Unit	Source
gf	-180.30	kJ/mol	Joback Method
hf	-494.12	kJ/mol	Joback Method
hfus	28.80	kJ/mol	Joback Method
hvap	55.28	kJ/mol	Joback Method
log10ws	-3.83		Crippen Method
logp	3.674		Crippen Method
mcvol	190.790	ml/mol	McGowan Method
pc	2161.32	kPa	Joback Method
rinpol	1582.00		NIST Webbook
rinpol	1582.00		NIST Webbook
tb	593.09	K	Joback Method
tc	779.97	K	Joback Method
tf	330.69	K	Joback Method
vc	0.732	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	462.31	J/molxK	593.09	Joback Method
cpg	528.64	J/molxK	748.82	Joback Method
cpg	516.68	J/molxK	717.68	Joback Method
cpg	504.08	J/molxK	686.53	Joback Method
cpg	490.82	J/molxK	655.38	Joback Method
cpg	476.91	J/molxK	624.24	Joback Method

cpg	539.99	J/molxK	779.97	Joback Method
dvisc	0.0001832	Paxs	593.09	Joback Method
dvisc	0.0002408	Paxs	549.36	Joback Method
dvisc	0.0003319	Paxs	505.62	Joback Method
dvisc	0.0004860	Paxs	461.89	Joback Method
dvisc	0.0007709	Paxs	418.16	Joback Method
dvisc	0.0013618	Paxs	374.42	Joback Method
dvisc	0.0027963	Paxs	330.69	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C7425607&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C7425607&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>

## 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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