

# Dodecyl 2-bromopropanoate

<b>Inchi:</b>	InChI=1S/C15H29BrO2/c1-3-4-5-6-7-8-9-10-11-12-13-18-15(17)14(2)16/h14H,3-13H2,1-
<b>InchiKey:</b>	RXTSHIDRCASANN-UHFFFAOYSA-N
<b>Formula:</b>	C15H29BrO2
<b>SMILES:</b>	CCCCCCCCCCCCOC(=O)C(C)Br
<b>Mol. weight [g/mol]:</b>	321.29

## Physical Properties

Property code	Value	Unit	Source
gf	-146.62	kJ/mol	Joback Method
hf	-576.68	kJ/mol	Joback Method
hfus	39.15	kJ/mol	Joback Method
hvap	64.19	kJ/mol	Joback Method
log10ws	-5.51		Crippen Method
logp	5.234		Crippen Method
mcvol	247.150	ml/mol	McGowan Method
pc	1556.12	kPa	Joback Method
rinpol	1911.00		NIST Webbook
rinpol	1911.00		NIST Webbook
tb	684.61	K	Joback Method
tc	865.94	K	Joback Method
tf	375.77	K	Joback Method
vc	0.956	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	673.08	J/molxK	684.61	Joback Method
cpg	748.56	J/molxK	835.72	Joback Method
cpg	734.99	J/molxK	805.50	Joback Method
cpg	720.68	J/molxK	775.28	Joback Method
cpg	705.61	J/molxK	745.05	Joback Method
cpg	689.75	J/molxK	714.83	Joback Method
cpg	761.41	J/molxK	865.94	Joback Method
dvisc	0.0001097	Paxs	684.61	Joback Method

dvisc	0.0001461	Paxs	633.14	Joback Method
dvisc	0.0002047	Paxs	581.66	Joback Method
dvisc	0.0003063	Paxs	530.19	Joback Method
dvisc	0.0004997	Paxs	478.72	Joback Method
dvisc	0.0009173	Paxs	427.24	Joback Method
dvisc	0.0019888	Paxs	375.77	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=R23330&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R23330&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>

## Legend

<b>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</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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