

# 12-Bromo-1-dodecanol

<b>Inchi:</b>	InChI=1S/C12H25BrO/c13-11-9-7-5-3-1-2-4-6-8-10-12-14/h14H,1-12H2
<b>InchiKey:</b>	ASIDMJNTHJYVQJ-UHFFFAOYSA-N
<b>Formula:</b>	C12H25BrO
<b>SMILES:</b>	OCCCCCCCCCCCCBr
<b>Mol. weight [g/mol]:</b>	265.23
<b>CAS:</b>	3344-77-2

## Physical Properties

Property code	Value	Unit	Source
gf	-72.34	kJ/mol	Joback Method
hf	-416.91	kJ/mol	Joback Method
hfus	36.21	kJ/mol	Joback Method
hvap	65.42	kJ/mol	Joback Method
log10ws	-4.54		Crippen Method
logp	4.275		Crippen Method
mcvol	203.310	ml/mol	McGowan Method
pc	2049.31	kPa	Joback Method
tb	632.30	K	Joback Method
tc	801.92	K	Joback Method
tf	345.62	K	Joback Method
vc	0.788	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	526.53	J/molxK	632.30	Joback Method
cpg	540.42	J/molxK	660.57	Joback Method
cpg	553.69	J/molxK	688.84	Joback Method
cpg	566.38	J/molxK	717.11	Joback Method
cpg	578.50	J/molxK	745.38	Joback Method
cpg	590.08	J/molxK	773.65	Joback Method
cpg	601.14	J/molxK	801.92	Joback Method
dvisc	0.0058719	Paxs	345.62	Joback Method
dvisc	0.0017501	Paxs	393.40	Joback Method

dvisc	0.0006780	Paxs	441.18	Joback Method
dvisc	0.0003161	Paxs	488.96	Joback Method
dvisc	0.0001688	Paxs	536.74	Joback Method
dvisc	0.0000999	Paxs	584.52	Joback Method
dvisc	0.0000640	Paxs	632.30	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	428.20	K	0.50	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=C3344772&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3344772&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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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