

# 4-Bromobutyric acid, 2,4,5-trichlorophenyl ester

Inchi:	InChI=1S/C10H8BrCl3O2/c11-3-1-2-10(15)16-9-5-7(13)6(12)4-8(9)14/h4-5H,1-3H2
InchiKey:	GQVNSYWBIORPPC-UHFFFAOYSA-N
Formula:	C10H8BrCl3O2
SMILES:	O=C(CCCBr)Oc1cc(Cl)c(Cl)cc1Cl
Mol. weight [g/mol]:	346.43

## Physical Properties

Property code	Value	Unit	Source
gf	-138.55	kJ/mol	Joback Method
hf	-313.30	kJ/mol	Joback Method
hfus	35.19	kJ/mol	Joback Method
hvap	70.86	kJ/mol	Joback Method
log10ws	-5.11		Crippen Method
logp	4.727		Crippen Method
mcvol	189.660	ml/mol	McGowan Method
pc	2805.41	kPa	Joback Method
rinqol	2147.00		NIST Webbook
tb	724.56	K	Joback Method
tc	962.23	K	Joback Method
tf	488.16	K	Joback Method
vc	0.721	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	399.31	J/molxK	724.56	Joback Method
cpg	438.18	J/molxK	922.62	Joback Method
cpg	431.74	J/molxK	883.01	Joback Method
cpg	424.65	J/molxK	843.40	Joback Method
cpg	416.89	J/molxK	803.78	Joback Method
cpg	408.46	J/molxK	764.17	Joback Method
cpg	444.00	J/molxK	962.23	Joback Method
dvisc	0.0001583	Paxs	724.56	Joback Method
dvisc	0.0001900	Paxs	685.16	Joback Method

dvisc	0.0002332	Paxs	645.76	Joback Method
dvisc	0.0002939	Paxs	606.36	Joback Method
dvisc	0.0003825	Paxs	566.96	Joback Method
dvisc	0.0005177	Paxs	527.56	Joback Method
dvisc	0.0007359	Paxs	488.16	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U354692&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U354692&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>

## 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

Latest version available from:

<https://www.chemeo.com/cid/65-191-8/4-Bromobutyric-acid-2-4-5-trichlorophenyl-ester.pdf>

Generated by Cheméo on 2024-04-30 00:09:34.292801503 +0000 UTC m=+16725023.213378821.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.