

# Ethyl tribromoacetate

<b>Other names:</b>	Acetic acid, 2,2,2-tribromoethyl ester
<b>Inchi:</b>	InChI=1S/C4H5Br3O2/c1-2-9-3(8)4(5,6)7/h2H2,1H3
<b>InchiKey:</b>	ZZUKBDJWZXVOQG-UHFFFAOYSA-N
<b>Formula:</b>	C4H5Br3O2
<b>SMILES:</b>	CCOC(=O)C(Br)(Br)Br
<b>Mol. weight [g/mol]:</b>	324.79
<b>CAS:</b>	599-99-5

## Physical Properties

Property code	Value	Unit	Source
gf	-205.32	kJ/mol	Joback Method
hf	-300.45	kJ/mol	Joback Method
hfus	17.34	kJ/mol	Joback Method
hvap	51.66	kJ/mol	Joback Method
log10ws	-2.76		Crippen Method
logp	2.388		Crippen Method
mcvol	127.160	ml/mol	McGowan Method
pc	5653.23	kPa	Joback Method
tb	562.46	K	Joback Method
tc	808.56	K	Joback Method
tf	388.82	K	Joback Method
vc	0.459	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	215.73	J/molxK	562.46	Joback Method
cpg	222.21	J/molxK	603.48	Joback Method
cpg	228.07	J/molxK	644.49	Joback Method
cpg	233.37	J/molxK	685.51	Joback Method
cpg	238.16	J/molxK	726.53	Joback Method
cpg	242.52	J/molxK	767.54	Joback Method
cpg	246.51	J/molxK	808.56	Joback Method
dvisc	0.0017474	Paxs	388.82	Joback Method

dvisc	0.0011913	Paxs	417.76	Joback Method
dvisc	0.0008535	Paxs	446.70	Joback Method
dvisc	0.0006368	Paxs	475.64	Joback Method
dvisc	0.0004913	Paxs	504.58	Joback Method
dvisc	0.0003899	Paxs	533.52	Joback Method
dvisc	0.0003169	Paxs	562.46	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	421.20	K	9.70	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=C599995&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C599995&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>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature

**tf:** Normal melting (fusion) point

**vc:** Critical Volume

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