

# Ethene, tribromo-

<b>Other names:</b>	Ethylene, tribromo- Tribromoethylene 1,1,2-Tribromoethylene Tribromoethene
<b>Inchi:</b>	InChI=1S/C2HBr3/c3-1-2(4)5/h1H
<b>InchiKey:</b>	OZVJKTHTULCNHB-UHFFFAOYSA-N
<b>Formula:</b>	C2HBr3
<b>SMILES:</b>	BrC=C(Br)Br
<b>Mol. weight [g/mol]:</b>	264.74
<b>CAS:</b>	598-16-3

## Physical Properties

Property code	Value	Unit	Source
gf	80.59	kJ/mol	Joback Method
hf	101.81	kJ/mol	Joback Method
hfus	15.68	kJ/mol	Joback Method
hvap	39.39	kJ/mol	Joback Method
ie	9.27	eV	NIST Webbook
ie	9.27 ± 0.01	eV	NIST Webbook
log10ws	-3.29		Crippen Method
logp	2.970		Crippen Method
mcvol	87.240	ml/mol	McGowan Method
pc	7614.31	kPa	Joback Method
rinpole	978.00		NIST Webbook
rinpole	961.00		NIST Webbook
rinpole	978.00		NIST Webbook
rinpole	978.00		NIST Webbook
tb	437.20	K	NIST Webbook
tc	697.23	K	Joback Method
tf	272.66	K	Joback Method
vc	0.315	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	96.25	J/mol×K	447.68	Joback Method
cpg	99.38	J/mol×K	489.27	Joback Method
cpg	102.02	J/mol×K	530.86	Joback Method
cpg	104.23	J/mol×K	572.46	Joback Method
cpg	106.08	J/mol×K	614.05	Joback Method
cpg	107.64	J/mol×K	655.64	Joback Method
cpg	108.99	J/mol×K	697.23	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	348.20	K	2.00	NIST Webbook

## Sources

<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>
<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=C598163&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C598163&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>hvpap:</b>	Enthalpy of vaporization at standard conditions
<b>ie:</b>	Ionization energy
<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>tbrp:</b>	Boiling point at reduced pressure
<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/73-158-6/Ethene-tribromo.pdf>

Generated by Cheméo on 2024-04-25 19:08:44.076839328 +0000 UTC m=+16361372.997416643.

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