

# Tribromomethyl radical

**Inchi:** InChI=1S/CBr3/c2-1(3)4  
**InchiKey:** ROWMQJJMCWDJDT-UHFFFAOYSA-N  
**Formula:** CBr3  
**SMILES:** Br[C](Br)Br  
**Mol. weight [g/mol]:** 251.72  
**CAS:** 4471-18-5

## Physical Properties

Property code	Value	Unit	Source
ea	1.73 ± 0.18	eV	NIST Webbook
ea	2.57 ± 0.12	eV	NIST Webbook
hfpi	967.00	kJ/mol	NIST Webbook
ie	7.50 ± 0.20	eV	NIST Webbook
log10ws	-2.63		Crippen Method
logp	2.618		Crippen Method
mcvol	75.300	ml/mol	McGowan Method

## Sources

**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>  
**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C4471185&Units=SI>  
**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>  
**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

## Legend

**ea:** Electron affinity  
**hfpi:** Enthalpy of formation of positive ion at standard conditions  
**ie:** Ionization energy  
**log10ws:** Log10 of Water solubility in mol/l  
**logp:** Octanol/Water partition coefficient

**mcvol:** McGowan's characteristic volume

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