

Tricarbon

Other names:	Carbon trimer
Inchi:	InChI=1S/C3/c1-3-2
InchiKey:	NVLRFXKSQQPKAD-UHFFFAOYSA-N
Formula:	C3
SMILES:	[C]=C=[C]
Mol. weight [g/mol]:	36.03
CAS:	12075-35-3

Physical Properties

Property code	Value	Unit	Source
affp	767.00	kJ/mol	NIST Webbook
basg	736.30	kJ/mol	NIST Webbook
ea	2.50 ± 1.00	eV	NIST Webbook
ea	2.00 ± 0.03	eV	NIST Webbook
ea	1.98 ± 0.02	eV	NIST Webbook
ea	1.95 ± 0.10	eV	NIST Webbook
ie	13.00 ± 0.10	eV	NIST Webbook
ie	11.10 ± 0.50	eV	NIST Webbook
ie	12.10 ± 0.20	eV	NIST Webbook
ie	12.10 ± 0.30	eV	NIST Webbook
ie	12.60 ± 0.60	eV	NIST Webbook
log10ws	0.04		Crippen Method
logp	0.318		Crippen Method
mcvol	35.930	ml/mol	McGowan Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C12075353&Units=SI

Legend

affp:	Proton affinity
basg:	Gas basicity
ea:	Electron affinity
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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