

Dichlorine heptoxide

Other names:	Chlorine heptoxide Chlorine oxide (Cl ₂ O ₇) Perchloric anhydride
Inchi:	InChI=1S/Cl ₂ O ₇ /c3-1(4,5)9-2(6,7)8
InchiKey:	SCDFUIZLRPEIIH-UHFFFAOYSA-N
Formula:	Cl ₂ O ₇
SMILES:	[O-][Cl+3]([O-])([O-])O[Cl+3]([O-])([O-])[O-]
Mol. weight [g/mol]:	182.90
CAS:	12015-53-1

Physical Properties

Property code	Value	Unit	Source
mvol	76.430	ml/mol	McGowan Method

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.54800e+01
Coeff. B	-3.64647e+03
Coeff. C	-1.94300e+01
Temperature range (K), min.	227.85
Temperature range (K), max.	355.15

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C12015531&Units=SI
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure

Legend

mcvol: McGowan's characteristic volume

pvap: Vapor pressure

Latest version available from:

<https://www.cheméo.com/cid/20-943-2/Dichlorine-heptoxide.pdf>

Generated by Cheméo on 2024-04-23 09:18:52.294475228 +0000 UTC m=+16153181.215052550.

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