

Allyl tribromoacetate

Inchi:	InChI=1S/C5H5Br3O2/c1-2-3-10-4(9)5(6,7)8/h2H,1,3H2
InchiKey:	ZXNKJDAAUQGEPD-UHFFFAOYSA-N
Formula:	C5H5Br3O2
SMILES:	C=CCOC(=O)C(Br)(Br)Br
Mol. weight [g/mol]:	336.80

Physical Properties

Property code	Value	Unit	Source
gf	-109.06	kJ/mol	Joback Method
hf	-195.66	kJ/mol	Joback Method
hfus	18.65	kJ/mol	Joback Method
hvap	53.22	kJ/mol	Joback Method
log10ws	-3.03		Crippen Method
logp	2.554		Crippen Method
mcvol	136.950	ml/mol	McGowan Method
pc	5220.69	kPa	Joback Method
rinpol	1308.00		NIST Webbook
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tb	582.02	K	Joback Method
tc	828.42	K	Joback Method
tf	398.33	K	Joback Method
vc	0.495	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	238.24	J/molxK	582.02	Joback Method
cpg	244.98	J/molxK	623.09	Joback Method
cpg	251.06	J/molxK	664.15	Joback Method
cpg	256.54	J/molxK	705.22	Joback Method
cpg	261.50	J/molxK	746.29	Joback Method
cpg	266.01	J/molxK	787.36	Joback Method
cpg	270.14	J/molxK	828.42	Joback Method
dvisc	0.0016051	Paxs	398.33	Joback Method

dvisc	0.0010862	Paxs	428.94	Joback Method
dvisc	0.0007744	Paxs	459.56	Joback Method
dvisc	0.0005759	Paxs	490.17	Joback Method
dvisc	0.0004434	Paxs	520.79	Joback Method
dvisc	0.0003515	Paxs	551.40	Joback Method
dvisc	0.0002855	Paxs	582.02	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R26621&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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