

Propane, 1-(2,4,6-tribromophenoxy)-2,3-dibromo-

Other names:	1,3,5-tribromo(2,3-dibromopropoxy)benzene 1,3,5-tribromo-2-(2,3-dibromopropoxy)benzene 2,3-Dibromopropyl 2,4,6-tribromophenyl ether Benzene, 1,3,5-tribromo-2-(2,3-dibromopropoxy)- Propane, 2,3-dibromo-(2,4,6-tribromophenoxy)-
Inchi:	InChI=1S/C9H7Br5O/c10-3-6(12)4-15-9-7(13)1-5(11)2-8(9)14/h1-2,6H,3-4H2
InchiKey:	QXWYPAKUEHGJSG-UHFFFAOYSA-N
Formula:	C9H7Br5O
SMILES:	BrCC(Br)COc1c(Br)cc(Br)cc1Br
Mol. weight [g/mol]:	530.67
CAS:	35109-60-5

Physical Properties

Property code	Value	Unit	Source
gf	72.58	kJ/mol	Joback Method
hf	-32.82	kJ/mol	Joback Method
hfus	36.03	kJ/mol	Joback Method
hvap	74.09	kJ/mol	Joback Method
log10ws	-6.89		Crippen Method
logp	5.511		Crippen Method
mcvol	207.280	ml/mol	McGowan Method
pc	4691.31	kPa	Joback Method
tb	799.72	K	Joback Method
tc	1076.12	K	Joback Method
tf	561.40	K	Joback Method
tt	307.90	K	Measurement of Vapor Pressures and Melting Properties of Five Polybrominated Aromatic Flame Retardants
vc	0.753	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	390.54	J/molxK	799.72	Joback Method
cpg	424.27	J/molxK	1030.06	Joback Method
cpg	418.28	J/molxK	983.99	Joback Method
cpg	412.01	J/molxK	937.92	Joback Method
cpg	405.36	J/molxK	891.85	Joback Method
cpg	398.24	J/molxK	845.79	Joback Method
cpg	430.06	J/molxK	1076.12	Joback Method
dvisc	0.0001017	Paxs	799.72	Joback Method
dvisc	0.0001208	Paxs	760.00	Joback Method
dvisc	0.0001461	Paxs	720.28	Joback Method
dvisc	0.0001806	Paxs	680.56	Joback Method
dvisc	0.0002293	Paxs	640.84	Joback Method
dvisc	0.0003005	Paxs	601.12	Joback Method
dvisc	0.0004091	Paxs	561.40	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Measurement of Vapor Pressures and Melting Properties of Five Polymeric Aromatic Flame Retardants:	https://www.doi.org/10.1021/acs.jced.7b01040
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=C35109605&Units=SI

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
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

tf: Normal melting (fusion) point
tt: Triple Point Temperature
vc: Critical Volume

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