

tert-Butyl 2,4,5-trichlorophenyl carbonate

Other names:	t-Butyl 2,4,5-trichlorophenyl carbonate Carbonic acid, 1,1-dimethylethyl 2,4,5-trichlorophenyl ester
Inchi:	InChI=1S/C11H11Cl3O3/c1-11(2,3)17-10(15)16-9-5-7(13)6(12)4-8(9)14/h4-5H,1-3H3
InchiKey:	LJFPGBIHDPZHIN-UHFFFAOYSA-N
Formula:	C11H11Cl3O3
SMILES:	CC(C)(C)OC(=O)Oc1cc(Cl)c(Cl)cc1Cl
Mol. weight [g/mol]:	297.56
CAS:	16965-08-5

Physical Properties

Property code	Value	Unit	Source
gf	-246.61	kJ/mol	Joback Method
hf	-501.24	kJ/mol	Joback Method
hfus	26.27	kJ/mol	Joback Method
hvap	67.77	kJ/mol	Joback Method
log10ws	-5.27		Crippen Method
logp	4.961		Crippen Method
mvol	192.120	ml/mol	McGowan Method
pc	2377.22	kPa	Joback Method
tb	700.47	K	Joback Method
tc	932.89	K	Joback Method
tf	464.28	K	Joback Method
vc	0.722	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	445.75	J/molxK	700.47	Joback Method
cpg	457.01	J/molxK	739.21	Joback Method
cpg	467.42	J/molxK	777.94	Joback Method
cpg	476.99	J/molxK	816.68	Joback Method
cpg	485.74	J/molxK	855.42	Joback Method
cpg	493.69	J/molxK	894.15	Joback Method
cpg	500.86	J/molxK	932.89	Joback Method

dvisc	0.0006395	Paxs	464.28	Joback Method
dvisc	0.0004219	Paxs	503.64	Joback Method
dvisc	0.0002956	Paxs	543.01	Joback Method
dvisc	0.0002174	Paxs	582.38	Joback Method
dvisc	0.0001662	Paxs	621.74	Joback Method
dvisc	0.0001312	Paxs	661.11	Joback Method
dvisc	0.0001063	Paxs	700.47	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
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=C16965085&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/122-360-6/tert-Butyl-2-4-5-trichlorophenyl-carbonate.pdf>

Generated by Cheméo on 2024-04-29 16:42:04.560489284 +0000 UTC m=+16698173.481066605.

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