

Fumaric acid, nonyl 2,3,4,6-tetrachlorophenyl ester

Inchi:	InChI=1S/C19H22Cl4O4/c1-2-3-4-5-6-7-8-11-26-15(24)9-10-16(25)27-19-14(21)12-13(20)
InchiKey:	HXFNNNWNGSGHRR-MDZDMXLPSA-N
Formula:	C19H22Cl4O4
SMILES:	CCCCCCCCCOC(=O)C=CC(=O)Oc1c(Cl)cc(Cl)c(Cl)c1Cl
Mol. weight [g/mol]:	456.19

Physical Properties

Property code	Value	Unit	Source
gf	-252.35	kJ/mol	Joback Method
hf	-680.18	kJ/mol	Joback Method
hfus	60.01	kJ/mol	Joback Method
hvap	98.62	kJ/mol	Joback Method
log10ws	-7.85		Crippen Method
logp	7.056		Crippen Method
mcvol	314.350	ml/mol	McGowan Method
pc	1298.60	kPa	Joback Method
rinpol	3044.00		NIST Webbook
tb	987.18	K	Joback Method
tc	1213.95	K	Joback Method
tf	639.31	K	Joback Method
vc	1.216	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	882.64	J/molxK	987.18	Joback Method
cpg	925.69	J/molxK	1176.16	Joback Method
cpg	919.14	J/molxK	1138.36	Joback Method
cpg	911.59	J/molxK	1100.57	Joback Method
cpg	903.01	J/molxK	1062.77	Joback Method
cpg	893.37	J/molxK	1024.98	Joback Method
cpg	931.28	J/molxK	1213.95	Joback Method
dvisc	0.0000312	Paxs	987.18	Joback Method
dvisc	0.0000385	Paxs	929.20	Joback Method

dvisc	0.0000489	Paxs	871.22	Joback Method
dvisc	0.0000641	Paxs	813.25	Joback Method
dvisc	0.0000878	Paxs	755.27	Joback Method
dvisc	0.0001266	Paxs	697.29	Joback Method
dvisc	0.0001952	Paxs	639.31	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=U348201&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
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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