

Fumaric acid, di(8-chlorooctyl) ester

Inchi: InChI=1S/C20H34Cl2O4/c21-15-9-5-1-3-7-11-17-25-19(23)13-14-20(24)26-18-12-8-4-2-6
InchiKey: QMQZGFHUZRFAIY-BUHFOSPRSA-N
Formula: C20H34Cl2O4
SMILES: O=C(C=CC(=O)OCCCCCCCCCl)OCCCCCCCCCl
Mol. weight [g/mol]: 409.39

Physical Properties

Property code	Value	Unit	Source
gf	-293.96	kJ/mol	Joback Method
hf	-859.99	kJ/mol	Joback Method
hfus	61.73	kJ/mol	Joback Method
hvap	87.15	kJ/mol	Joback Method
log10ws	-6.08		Crippen Method
logp	5.788		Crippen Method
mvol	327.720	ml/mol	McGowan Method
pc	1062.40	kPa	Joback Method
rinpol	3080.00		NIST Webbook
rinpol	3080.00		NIST Webbook
tb	888.60	K	Joback Method
tc	1088.64	K	Joback Method
tf	514.24	K	Joback Method
vc	1.282	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1003.09	J/molxK	888.60	Joback Method
cpg	1018.99	J/molxK	921.94	Joback Method
cpg	1033.83	J/molxK	955.28	Joback Method
cpg	1047.65	J/molxK	988.62	Joback Method
cpg	1060.50	J/molxK	1021.96	Joback Method
cpg	1072.40	J/molxK	1055.30	Joback Method
cpg	1083.39	J/molxK	1088.64	Joback Method
dvisc	0.0004822	Paxs	514.24	Joback Method

dvisc	0.0002434	Paxs	576.63	Joback Method
dvisc	0.0001404	Paxs	639.03	Joback Method
dvisc	0.0000893	Paxs	701.42	Joback Method
dvisc	0.0000612	Paxs	763.81	Joback Method
dvisc	0.0000444	Paxs	826.21	Joback Method
dvisc	0.0000337	Paxs	888.60	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U348540&Units=SI
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

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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