

Fumaric acid, nonyl pent-4-en-2-yl ester

Inchi:

lnchl=1S/C18H30O4/c1-4-6-7-8-9-10-11-15-21-17(19)13-14-18(20)22-16(3)12-5-2/h5,13

InchiKey:

UAVIVXAGEACBPZ-BUHFOSPRSA-N

Formula:

C18H30O4

SMILES:

C=CCC(C)OC(=O)C=CC(=O)OCCCCCCCCC

Mol. weight [g/mol]:

310.43

Physical Properties

Property code	Value	Unit	Source
gf	-201.54	kJ/mol	Joback Method
hf	-667.08	kJ/mol	Joback Method
hfus	43.35	kJ/mol	Joback Method
hvap	72.87	kJ/mol	Joback Method
log10ws	-4.90		Crippen Method
logp	4.344		Crippen Method
mcvol	270.760	ml/mol	McGowan Method
pc	1320.39	kPa	Joback Method
rinpol	2096.00		NIST Webbook
tb	764.22	K	Joback Method
tc	949.22	K	Joback Method
tf	415.10	K	Joback Method
vc	1.046	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	799.90	J/mol×K	764.22	Joback Method
cpg	816.41	J/mol×K	795.05	Joback Method
cpg	832.01	J/mol×K	825.89	Joback Method
cpg	846.75	J/mol×K	856.72	Joback Method
cpg	860.63	J/mol×K	887.56	Joback Method
cpg	873.69	J/mol×K	918.39	Joback Method
cpg	885.95	J/mol×K	949.22	Joback Method
dvisc	0.0011583	Pa×s	415.10	Joback Method
dvisc	0.0005221	Pa×s	473.29	Joback Method

dvisc	0.0002802	Pa×s	531.47	Joback Method
dvisc	0.0001700	Pa×s	589.66	Joback Method
dvisc	0.0001128	Pa×s	647.85	Joback Method
dvisc	0.0000801	Pa×s	706.03	Joback Method
dvisc	0.0000599	Pa×s	764.22	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=U348928&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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