

Phthalic acid, heptadecyl pent-4-enyl ester

Inchi: InChI=1S/C30H48O4/c1-3-5-7-8-9-10-11-12-13-14-15-16-17-18-22-26-34-30(32)28-24-2
InchiKey: QZSTXNJFGGKDMZ-UHFFFAOYSA-N
Formula: C30H48O4
SMILES: C=CCCCOC(=O)c1cccc1C(=O)OCCCCCCCCCCCCCCCCC
Mol. weight [g/mol]: 472.70

Physical Properties

Property code	Value	Unit	Source
gf	-75.50	kJ/mol	Joback Method
hf	-801.64	kJ/mol	Joback Method
hfus	71.40	kJ/mol	Joback Method
hvap	102.95	kJ/mol	Joback Method
log10ws	-10.18		Crippen Method
logp	8.838		Crippen Method
mvol	420.380	ml/mol	McGowan Method
pc	751.43	kPa	Joback Method
rinpol	3361.00		NIST Webbook
rinpol	3361.00		NIST Webbook
tb	1066.72	K	Joback Method
tc	1317.87	K	Joback Method
tf	609.36	K	Joback Method
vc	1.637	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1465.97	J/molxK	1066.72	Joback Method
cpg	1484.60	J/molxK	1108.58	Joback Method
cpg	1501.31	J/molxK	1150.44	Joback Method
cpg	1516.19	J/molxK	1192.29	Joback Method
cpg	1529.35	J/molxK	1234.15	Joback Method
cpg	1540.89	J/molxK	1276.01	Joback Method
cpg	1550.92	J/molxK	1317.87	Joback Method
dvisc	0.0001911	Paxs	609.36	Joback Method

dvisc	0.0000957	Paxs	685.59	Joback Method
dvisc	0.0000551	Paxs	761.81	Joback Method
dvisc	0.0000350	Paxs	838.04	Joback Method
dvisc	0.0000240	Paxs	914.27	Joback Method
dvisc	0.0000175	Paxs	990.49	Joback Method
dvisc	0.0000133	Paxs	1066.72	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=U360476&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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