

Other names:
acetate

25-Oxo-3,6,9,12,15,18,21,24-octaoxahexacos-1-yl acetate

InChI=1S/C20H38O11/c1-19(21)30-17-15-28-13-11-26-9-7-24-5-3-23-4-6-25-8-10-27-12

JAKKRKPLYKUQGS-UHFFFAOYSA-N

C₂₀H₃₈O₁₁

CC(=O)OCCOCCOCCOCCOCCOCCOCCOCCOC(C)=O

454.51

Physical Properties

Property code	Value	Unit	Source
gf	-1085.32	kJ/mol	Joback Method
hf	-1871.27	kJ/mol	Joback Method
hfus	61.45	kJ/mol	Joback Method
hvap	95.30	kJ/mol	Joback Method
log10ws	0.47		Crippen Method
logp	0.229		Crippen Method
mcvol	348.630	ml/mol	McGowan Method
pc	998.28	kPa	Joback Method
rinpol	2905.30		NIST Webbook
rinpol	2902.00		NIST Webbook
rinpol	2903.00		NIST Webbook
rinpol	2899.00		NIST Webbook
tb	966.52	K	Joback Method
tc	1191.56	K	Joback Method
tf	615.09	K	Joback Method
vc	1.329	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1182.32	J/mol×K	966.52	Joback Method
cpg	1230.73	J/mol×K	1154.06	Joback Method
cpg	1226.39	J/mol×K	1116.55	Joback Method
cpg	1219.29	J/mol×K	1079.04	Joback Method

cpg	1209.51	J/mol×K	1041.53	Joback Method
cpg	1197.16	J/mol×K	1004.03	Joback Method
cpg	1232.23	J/mol×K	1191.56	Joback Method
dvisc	0.0000064	Pa×s	966.52	Joback Method
dvisc	0.0000082	Pa×s	907.95	Joback Method
dvisc	0.0000109	Pa×s	849.38	Joback Method
dvisc	0.0000152	Pa×s	790.81	Joback Method
dvisc	0.0000223	Pa×s	732.23	Joback Method
dvisc	0.0000350	Pa×s	673.66	Joback Method
dvisc	0.0000597	Pa×s	615.09	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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=U351906&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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