

Other names:
acetate

31-Oxo-3,6,9,12,15,18,21,24,27,30-decaoxadotriacont-1-yl acetate

InChI=1S/C24H46O13/c1-23(25)36-21-19-34-17-15-32-13-11-30-9-7-28-5-3-27-4-6-29-8

YMJQIMJQZYPHJB-UHFFFAOYSA-N

C₂₄H₄₆O₁₃

CC(=O)OCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOC(C)=O

542.61

Physical Properties

Property code	Value	Unit	Source
gf	-1261.64	kJ/mol	Joback Method
hf	-2218.27	kJ/mol	Joback Method
hfus	74.18	kJ/mol	Joback Method
hvap	109.02	kJ/mol	Joback Method
log10ws	0.62		Crippen Method
logp	0.262		Crippen Method
mccvol	416.730	ml/mol	McGowan Method
pc	778.94	kPa	Joback Method
rinpol	3416.00		NIST Webbook
rinpol	3424.00		NIST Webbook
rinpol	3428.00		NIST Webbook
rinpol	3428.00		NIST Webbook
rinpol	3424.00		NIST Webbook
rinpol	3444.10		NIST Webbook
rinpol	3444.10		NIST Webbook
rinpol	3421.00		NIST Webbook
rinpol	3423.00		NIST Webbook
rinpol	3425.00		NIST Webbook
rinpol	3422.00		NIST Webbook
rinpol	3420.00		NIST Webbook
rinpol	3422.00		NIST Webbook
rinpol	3425.00		NIST Webbook
tb	1102.88	K	Joback Method
tc	1408.95	K	Joback Method
tf	704.63	K	Joback Method
vc	1.589	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1473.35	J/mol×K	1102.88	Joback Method
cpg	1446.77	J/mol×K	1357.94	Joback Method
cpg	1465.92	J/mol×K	1306.93	Joback Method
cpg	1477.88	J/mol×K	1255.92	Joback Method
cpg	1482.91	J/mol×K	1204.90	Joback Method
cpg	1481.31	J/mol×K	1153.89	Joback Method
cpg	1420.16	J/mol×K	1408.95	Joback Method
dvisc	0.0000017	Pa×s	1102.88	Joback Method
dvisc	0.0000022	Pa×s	1036.51	Joback Method
dvisc	0.0000030	Pa×s	970.13	Joback Method
dvisc	0.0000041	Pa×s	903.76	Joback Method
dvisc	0.0000061	Pa×s	837.38	Joback Method
dvisc	0.0000096	Pa×s	771.00	Joback Method
dvisc	0.0000164	Pa×s	704.63	Joback Method

Sources

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=U351904&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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

