

Erythromid

Inchi:

InChI=1S/C37H67NO13/c1-14-25-37(10,45)30(41)20(4)27(39)18(2)16-35(8,44)32(51-34

InchiKey:

ULGZDMOVFRHVEP-UHFFFAOYSA-N

Formula:

C37H67NO13

SMILES:

CCC1OC(=O)C(C)C(OC2CC(C)(OC)C(O)C(C)O2)C(C)C(OC2OC(C)CC(N(C)C)C2O)C(C

Mol. weight [g/mol]:

733.94

CAS:

643-22-1

Physical Properties

Property code	Value	Unit	Source
hfus	98.52	kJ/mol	Joback Method
logp	1.786		Crippen Method
mcvol	577.300	ml/mol	McGowan Method
tf	408.15	K	Jean-Claude Bradley Open Melting Point Dataset (2014, CC0)

Correlations

Information	Value
Property code	cpg
Equation	$Y = A + B \cdot T + C \cdot T^2 + D \cdot T^3 + E \cdot T.$
Y unit	J/mol×K
Coeff. A	-1.30429e+02
Coeff. B	4.18116e+00
Coeff. C	-2.28560e-03
Coeff. D	4.84000e-07
Coeff. E	0.00000e+00
Basis	predicted
Temperature range (K), min.	273.00
Temperature range (K), max.	1000.00

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
Jean-Claude Bradley Open Melting Point Dataset (2014, CC0):	https://figshare.com/articles/Jean_Claude_Bradley_Open_Melting_Point_Dataset/1031637
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
hfus:	Enthalpy of fusion at standard conditions
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tf:	Normal melting (fusion) point

Latest version available from:

<https://www.chemeo.com/cid/104-921-3/Erythromid.pdf>

Generated by Cheméo on 2026-10-28 05:07:59.284348324 +0000 UTC m=+29122.347249763.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.