

614

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DL RS

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1.

2. Lucas Sarett Oppenmer Williamenson
Pinacol Wagner-meerwein Fries
3.

Wagner-meerwein Oppenmer Williamenson Pinacol
Fries

1. / /

2.

3.

/ /

1.

2.

3.

1.

2.

3.

F-C

1.

- 2.
- 3.

1.

2.

3.

Q10

4.

K1

1 6

K1

Q10

- 1.
- 2.
- 3.

-H

/ / /

-H
Darzen

Hell-Volhavd-Zelinsky
Reformatsky

1.

2.

3.

1.

2.

3.

1.

2.

3.

1.

D/L

Fischer

Haworth

2.

3.

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3.

A -

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2.

- 1.
- 2.

- 1.
- 2.
- 3.

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|----|-------|-------|
| 1. | Hess | Gibbs |
| 2. | Gibbs | |
| 3. | | |

- | | |
|----|-----------|
| 1. | Arrhenius |
| 2. | |
| 3. | |

1.

2.

3.

n l m ms 4

Pauli

Hund

2

3

s p d
Pauli

Hund ;

$|\psi\rangle_2$

1

ABm

2

3

1.

pH

pH

2.

K_w

K_a K_b

3.

Lewis

pH

pH ;

1.

2.

3.

1

Nernst

2

3

-pH

Nernst

1

2

3.

8.

G

1.

2.

3.

4.

5.

1.

2.

K^\ominus

K^\ominus

K_p, K_c, K_x

3.

$\Delta_f G_m^\ominus$

$\Delta_r G_m^\ominus$

4.

$$\Delta_r G_m^\ominus = -RT \ln K^\ominus$$

5.

$\Delta_r G_m^\ominus$

6.

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

p x T x

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.
- 13.

Nernst

pH

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

Ea

- 1.
2. Laplace
- 3.
- 4.
- 5.

HLB CMC

- 1.
- 2.
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- 4.
- 5.
- 6.
- 7.

DLVO

V

- | | | |
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